

April 15, 1992

Utah Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attn: Tammi Searing

Re: PG & E Resources Company
#7-24B Federal
SW NE Sec. 24, T9S - R19E
Uintah County, Utah

Dear Tammi,

Enclosed please find three copies of the Application for Permit to Drill on the above mentioned well, along with one copy of Onshore Order No. 1 which was filed with the Bureau of Land Management in Vernal, Utah.

Please note that a copy of the water permit is included with the federal permit. Please contact me at your earliest convenience if you should require additional information.

Upon approval of the enclosed application, please forward the approved copies to Permitco Inc. - Agent for PG & E Resources Company at the address shown below. I will then forward copies to PG & E for their files. Your assistance in this matter would be greatly appreciated.

Sincerely,

PERMITCO INC.

Lisa L. Smith
Consultant for:
PG & E Resources Company

Enc.

cc: PG & E Resources Company - Dallas, TX
PG & E Resources Company - Vernal, UT
PIC Technologies, Inc. - Denver, CO

APR 20 1992

Permitco Incorporated
A Petroleum Permitting Company

**DIVISION OF
OIL GAS & MINING**

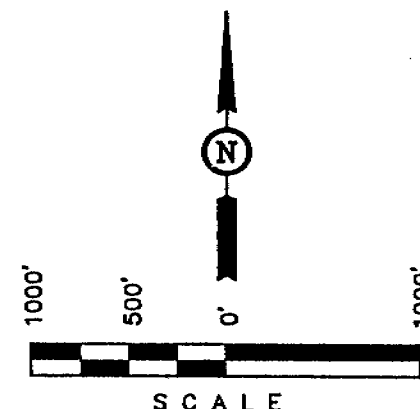
T9S, R19E, S.L.B.&M.

PG&E RESOURCES COMPANY

Well location, #7-24B FEDERAL, located as shown in the SW 1/4 NE 1/4 of Section 24, T9S, R19E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 9EAM 1964 LOCATED IN THE SE 1/4 OF SECTION 13, T9S, R19E, S.L.B.&M. TAKEN FROM THE OURAY QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4658 FEET.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
STATE OF UTAH
ROBERT L. [Signature]
5788

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 4-10-92	DATE DRAWN: 4-13-92
PARTY J.T.K. D.A. R.E.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PG&E RESOURCES	

WEST - G.L.O. (Basis of Bearings)
2641.74' (Measured)

WEST - 33.00 (G.L.O.)

13.00 (G.L.O.)

20.00 (G.L.O.)

Brass Cap

Brass Cap

Lot 2

#7-24B FEDERAL

Elev. Ungraded Ground = 4691'

1980'

1977'

24

Brass Cap
Large Pile of
Stones

S89°39'W - 80.40 (G.L.O.)

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR 214/750-3800 5950 Berkshire Lane, Suite 600
PG & E Resources Company Dallas, TX 75225

3. ADDRESS OF OPERATOR 303/452-8888 13585 Jackson Drive
Permitco Inc. - Agent Denver, CO

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1980' FNL and 1977' FEL
At proposed prod. zone SW NE Sec. 24

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APR 20 1992

5. LEASE DESIGNATION AND SERIAL NO.
UTU-68625

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Federal

9. WELL NO.
#7-24B

10. FIELD AND POOL, OR WILDCAT
Natural Buttes 630

11. SEC. T. R. M., OR BLK. AND SURVEY OR AREA
Sec. 24, T9S - R19E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
6 miles southwest of Ouray, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
656'

16. NO. OF ACRES IN LEASE
1667.76

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
approx. 2000'

19. PROPOSED DEPTH
8270' WSTC

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4691' GR

22. APPROX. DATE WORK WILL START*
Immediately upon approval of this application.

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	400'	170 sx or suffic to circ to surf.
7-7/8"	5-1/2"	17#	8270'	600 sx or suffic to cover zones of interest.

PG & E Resources Company proposes to drill a well to 8270' to test the Wasatch formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

Please be advised that PG & E Resources Company is considered to be the Operator of the above mentioned well. PG & E Resources Company agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the leased lands.

Bond coverage for this well is provided by Bond No. U-187011. The principal is PG & E Resources Company via surety consent as provided for in 43 CFR 3104.2.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Dina G. Smith TITLE Consultant for PG & E Resources Company DATE 4/15/92

(This space for Federal or State office use)

PERMIT NO. 43-047-30007 APPROVAL DATE APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

APPROVED BY DATE: 4-21-92 BY: WELL SPACING: 649-3-2

*See Instructions On Reverse Side

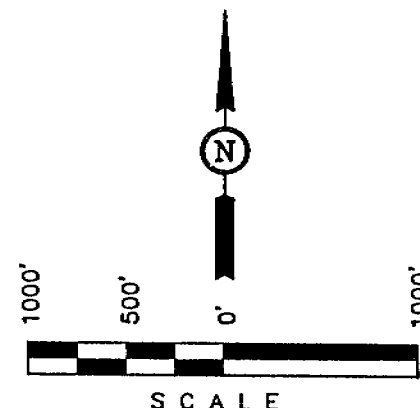
T9S, R19E, S.L.B.&M.

PG&E RESOURCES COMPANY

Well location, #7-24B FEDERAL, located as shown in the SW 1/4 NE 1/4 of Section 24, T9S, R19E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 9EAM 1964 LOCATED IN THE SE 1/4 OF SECTION 13, T9S, R19E, S.L.B.&M. TAKEN FROM THE OURAY QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4658 FEET.



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REGISTERED LAND SURVEYOR
STATE OF UTAH
EXPIRATION - 12-31-99
ROBERT L. [Signature]

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 4-10-92	DATE DRAWN: 4-13-92
PARTY J.T.K. D.A. R.E.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PG&E RESOURCES	

WEST - G.L.O. (Basis of Bearings)
 2641.74' (Measured)

WEST - 33.00 (G.L.O.)

13.00 (G.L.O.)

20.00 (G.L.O.)

Brass Cap

Brass Cap

Lot 2

#7-24B FEDERAL

Elev. Ungraded Ground = 4691'

1980'

1977'

24

Brass Cap
 Large Pile of
 Stones

X 1/4 Sec 24

S89°39'W - 80.40 (G.L.O.)

N77°25'W
 15.62 (G.L.O.)

N78°04'W
 7.33 (G.L.O.)

N01°3'E - 31.80 (G.L.O.)

10.80 (G.L.O.)

21.20 (G.L.O.)

N0°07'W - 40.47 (G.L.O.)

N01°21'06"W - 2680.62' (Meas.)

N0°31'W - 40.48 (G.L.O.)

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

(Other instructions on
reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil Well ☐Gas Well ☒Other ☐Single Zone ☒Multiple Zone ☐

2. Name of Operator

214/750-3800

5950 Berkshire Lane, Suite 600

PG & E Resources Company

Dallas, TX 75225

3. Address of Operator

303/452-8888

13585 Jackson Drive

Permitco Inc. - Agent

Denver, CO 80241

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

1980' FNL and 1977' FEL

At proposed prod. zone

SW NE Sec. 24

5. Lease Designation and Serial No.

UTU-68625

6. If Indian, Allottee or Tribe Name

N/A

7. Unit Agreement Name

N/A

8. Farm or Lease Name

Federal

9. Well No.

#7-24B

10. Field and Pool, or Wildcat

Natural Buttes 630

11. Sec., T., R., M., or Bk. and Survey or Area

Sec. 24, T9S - R19E

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

Uintah

13. State

Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

656'

16. No. of acres in lease

1667.76

17. No. of acres assigned to this well

40

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

approx. 2000'

19. Proposed depth

8270'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

4691' GR

22. Approx. date work will start*

Immediately upon approval of this application.

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	9-5/8"	36#	400'	170 sx or suffic to circ to surf.
7-7/8"	5-1/2"	17#	8270'	600 sx or suffic to cover zones of interest.

PG & E Resources Company proposes to drill a well to 8270' to test the Wasatch formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

Bond coverage for this well is provided under Bond No. 8063-38-07 and 8057-26-00.

RECEIVED

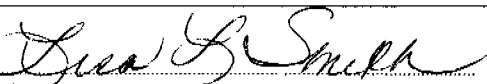
APR 20 1992

DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed



Title

Consultant for
PG & E Resources Company

Date

4/15/92

(This space for Federal or State office use)

Permit No.

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

CONFIDENTIAL - TIGHT HOLE

ONSHORE OIL & GAS ORDER NO. 1

Approval of Operations on Onshore
Federal and Indian Oil & Gas Leases

#7-24B FEDERAL
1980' FNL and 1977' FEL
SW NE Sec. 24, T9S - R19E
Uintah County, Utah

Prepared For:

P G & E RESOURCES COMPANY

By:

PERMITCO INC.
13585 Jackson Drive
Denver, Colorado 80241
303/452-8888

Copies Sent To:

- 3 - BLM - Vernal, Utah
- 1 - Utah Division of Oil, Gas & Mining - SLC, UT
- 3 - PG & E Resources - Dallas, TX
- 1 - PG & E Resources - Vernal, Utah
- 1 - PIC Technologies - Denver, CO



April 9, 1992



Bureau of Land Management

RE: 6-29B SENW Sec. 29-T9S-R19E
1980' FNL & 1980' FWL

5-31B SWNW Sec. 31-T9S-R19E
1980' FNL & 660 FWL

9-36B NESE Sec. 36-T9S-R19E
1980' FSL & 660' FEL

5-6E SWNW Sec 6-T10S-R19E
1980' FNL & 660' FWL

4-32B NWNW Sec. 32-T9S-R19E
660' FNL & 660' FWL

7-24B SWNE Sec. 24-T9S-R19E
1980' FNL & 1980' FEL'

13-36A SWSW Sec. 36-T9S-R18E
660' FSL & 660' FWL

13-26B SWSW Sec 26-T9S-R19E
660' FSL & 660' FWL

13-30C SWSW Sec. 30-T9S-R20E
660' FSL & 660' FWL

1-26B NENE Sec. 26-T9S-R19E
660' FNL & 660' FEL'

Gentlemen:

This letter is to inform you that Permitco is authorized to act as Agent and to sign documents on behalf of PG&E Resources Company when necessary for filing county, state and federal permits including Onshore Order No. 1, Right-of-Way applications, etc., for the above mentioned wells.

It should be understood that Permitco is acting as Agent only in those matters stated above and is not responsible for drilling, completion, production or compliance with regulations.

PG&E Resources Company agrees to accept full responsibility for operations conducted in order to drill, complete and produce the above mentioned wells.

Yours very truly,

A handwritten signature in cursive script, appearing to read "George Taylor".

George Taylor
Drilling Manager

GET/cs

TABLE OF CONTENTS

DRILLING PROGRAM

Page No.

1.	Formation Tops	1
2.	Anticipated Depth of Oil, Gas & Water	1
3.	Blow Out Preventor Requirements	2-3
4.	Casing and Cement Program	3-6
5.	Mud Program	6-7
6.	Testing, Logging and Coring	7-8
7.	Abnormal Pressures & H ₂ S Gas	8
8.	Other Information & Notification Requirements	8-10

SURFACE USE PLAN

1.	Existing Roads	1
2.	Access Roads to be Constructed or Reconstructed	1-2
3.	Location of Wells Within 1-Mile	3
4.	Proposed Production Facilities	3-4
5.	Water Supply	4
6.	Construction Materials	4-5
7.	Waste Disposal	5
8.	Ancillary Facilities	6
9.	Wellsite Layout	6-7
10.	Reclamation	7-8
11.	Surface/Mineral Ownership	8
12.	Other Information	8-10
13.	Certification	10

ONSHORE ORDER NO. 1
PG & E Resources Company
#7-24 Federal
1980' FNL and 1977' FEL
SW NE Sec. 24, T9S - R19E
Uintah County, Utah

CONFIDENTIAL - TIGHT HOLE

DRILLING PROGRAM
Page 1

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Uinta	Surface	
Basal Limestone	5170'	- 475'
Wasatch	5308'	- 613'
Chapita Wells 1	6043'	-1348'
Chapita Wells 2	6202'	-1507'
Chapita Wells 3	6406'	-1711'
Chapita Wells 4	6729'	-2034'
Uteland Buttes	7025'	-2330'
T.D.	8270'	

2. The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil	N/A	
Gas	Wasatch	5308'
Gas	Chapita Wells 1	6043'
Water	N/A	
Other Mineral Zones	N/A	

All fresh water prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. PG & E's minimum specifications for pressure control equipment are as follows:

Ram Type: 10" Hydraulic double with annular, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30-day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The District Office should be notified, with sufficient lead time, in order to have the BLM representative on location during pressure testing.

- a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not been chosen to drill this well, most of the equipment for this depth of hole in the area use a 10", 3000 psi working pressure blowout preventor.
 - b. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.
 - c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
 - d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.
4. a. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth

shall be based on all relevant factors, including; presence/absence of hydrocarbons; fracture gradients; usable water zones; formation pressures; lost circulation zones; other minerals; or other unusual characteristics. All indications of usable water shall be reported.

- b. Casing design shall assume formation pressure gradients of 0.44 to 0.50 psi per foot for exploratory wells (lacking better data).
- c. Casing design shall assume fracture gradients from 0.70 to 1.00 psi per foot for exploratory wells (lacking better data)
- d. Casing collars shall have a minimum clearance of 0.422 inches of all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.
- e. All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.
- f. All casing except the conductor casing, shall be new or reconditioned and tested used casing that meets or exceeds API standards for new casing.
- g. The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.
- h. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.
- i. Surface casing shall have centralizers on every fourth joint of casing starting with the shoe joint and up to the bottom of the cellar.
- j. Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.
- k. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal



yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.

1. On all exploratory wells, and on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

- m. The proposed casing program will be as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>New or Used</u>
Surface	0-400'	12-1/4"	9-5/8"	36#	K-55	ST&C	New
Produc.	0-8270'	7-7/8"	5-1/2"	17#	J-55	LT&C	New

- n. Casing design subject to revision based on geologic conditions encountered.

- o. The cement program will be as follows:

Surface
0-400'

Type and Amount
+ 170 sx Class "A" Cement or
sufficient volume to circulate to
surface.

Production

Type and Amount
Approx. 600 sx Class "H" with 8%
salt, 15.6 ppg, 1.2 yield or
sufficient to cover zones of
interest (from approx. 4800' to
T.D.

- p. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.



ONSHORE ORDER NO. 1
PG & E Resources Company
#7-24 Federal
1980' FNL and 1977' FEL
SW NE Sec. 24, T9S - R19E
Uintah County, Utah

CONFIDENTIAL - TIGHT HOLE

DRILLING PROGRAM

Page 6

- q. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.
- r. The following reports shall be filed with the District Manager within 30 days after the work is completed.
 - 1. Progress reports, Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:
 - a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.
 - b. Temperature or bond logs must be submitted for each well where the casing cement was not circulated to the surface.
- s. Auxiliary equipment to be used is as follows:
 - 1. Kelly cock
 - 2. No bit float is deemed necessary.
 - 3. A sub with a full opening valve.
- 5. a. The proposed circulating mediums to be employed in drilling are as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>F/L</u>	<u>PH</u>
0-8270'	Water/Gel-KHO	8.4-8.6	N/C	N/	N/C

There will be sufficient mud on location to control a blowout should one occur.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, static filtration loss, and Ph.

- b. Mud monitoring equipment to be used is as follows:
 - 1. Periodic checks will be made each tour of the mud system. The mud level will be checked visually.
 - c. No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.
6. The anticipated type and amount of testing, logging and coring are as follows:
- a. Drill stem tests will be run as warranted after log evaluation. One straddle test is possible in the Green River formation.

If DST's are run, the following requirements will be adhered to:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DSTs may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided some means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

ONSHORE ORDER NO. 1
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#7-24 Federal
1980' FNL and 1977' FEL
SW NE Sec. 24, T9S - R19E
Uintah County, Utah

CONFIDENTIAL - TIGHT HOLE

DRILLING PROGRAM
Page 8

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

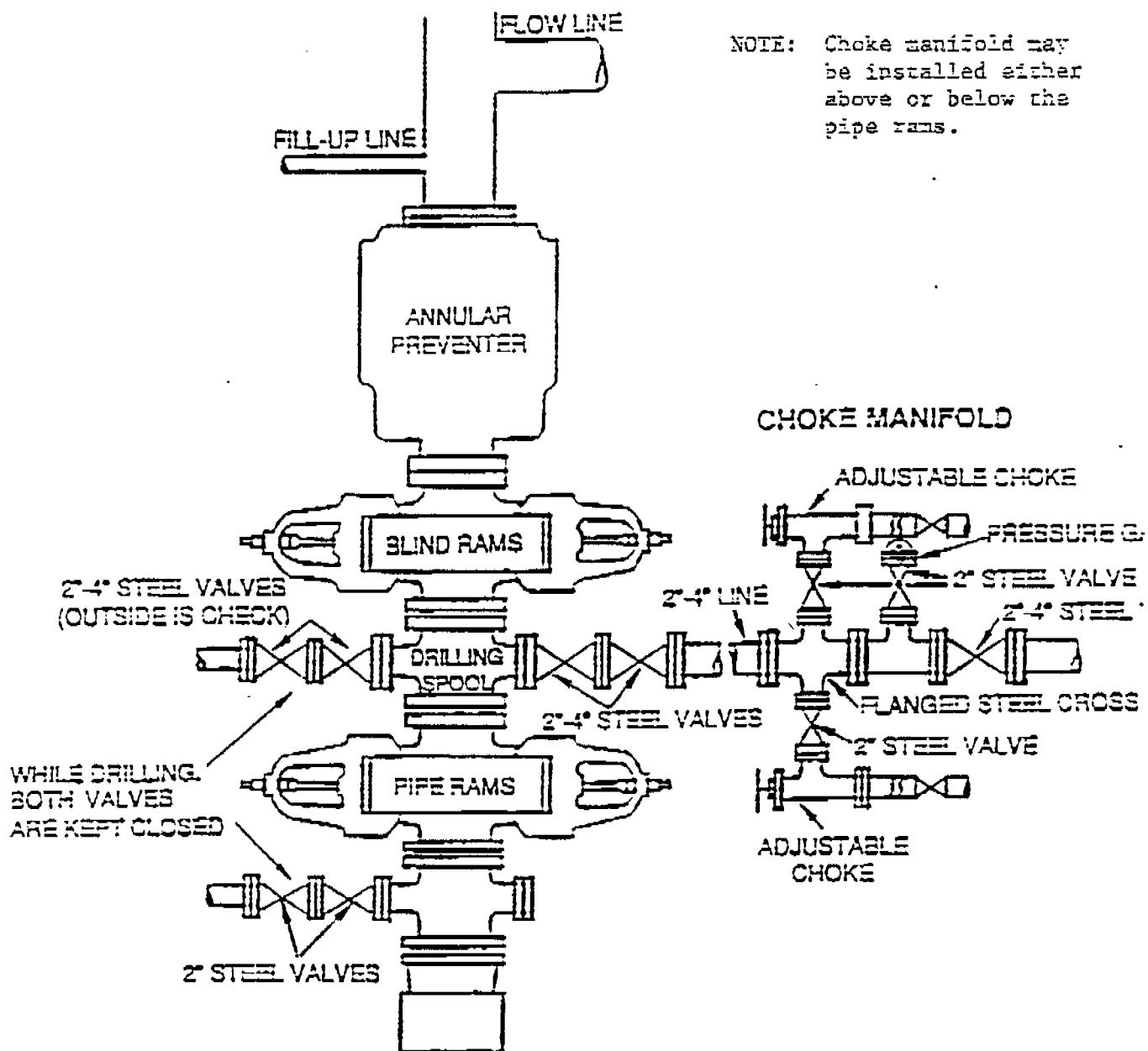
- b. The logging program will consist of a Dual Laterolog and an FDC-CNL-GR from T.D. to base of surface casing.
 - c. No cores are anticipated, however, sidewall cores will be run if warranted.
 - d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).
 - e. The anticipated completion program is as follows:
Perforate and casing water frac potential hydrocarbon bearing zones.
7. a. The expected bottom hole pressure is 3600 psi.
- b. No hydrogen sulfide gas is anticipated.
8. a. Drilling will commence immediately upon approval of this application.
- b. It is anticipated that the drilling of this well will take approximately 18-20 days.
- c. The BIM in Vernal, Utah shall be notified of anticipated date of location construction commencement and of anticipated spud date.
- d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be

obtained and notification given before resumption of operations.

- e. The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.
- f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM District Office, 170 South 500 East, Vernal, UT 84078.
- g. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.
- h. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- i. Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communications, not later than 5 days following the date on which the well is placed on production.
- j. Pursuant to NTL-2B, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.
- k. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

1. A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3 and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.
- m. A first production conference will be scheduled within 15 days after receipt of the first production notice.
- n. No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.
- o. Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

FIGURE NO. 1
THREE PREVENTER HOOKUP
CLASS III
(MEETS 43 CFR, PART 3160, 3M SPECIFICA



ONSHORE ORDER NO. 1
PG & E Resources Company
#7-24B Federal
1980' FNL and 1977' FEL
SW NE Sec. 24, T9S - R19E
Uintah County, Utah

CONFIDENTIAL - TIGHT HOLE

SURFACE USE PLAN

Page 1

ONSHORE OIL & GAS ORDER NO. 1

Thirteen Point Surface Use Plan

1. Existing Roads

- a. The proposed well site is located approximately 6.3 miles southwest of Ouray, Utah.
- b. Directions to the location from Ouray, Utah are as follows:

From Ouray proceed south on the Seep Ridge Road (County Road) for approximately 2.6 miles. Turn right and proceed southwesterly on an existing oilfield road for 3.1 miles to a fork in the road. Turn left and proceed south for 0.5 miles. Turn left onto the flagged access and proceed 0.1 miles to the location.
- c. For location of access roads within a 2-Mile radius, see Maps A & B.
- d. Improvement to the existing access will not be necessary.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

2. Planned Access Roads

- a. There will be approximately 0.1 mile of new access road to be constructed. The new road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.
- b. The maximum grade will be approximately 5%.
- c. No turnouts are planned.



Permitco Incorporated
A Petroleum Permitting Company

- d. No culverts and/or bridges will be required, however, appropriate drain dips or water turnouts will be installed as necessary to control erosion.
- e. The access road was centerline flagged at the time of staking.
- f. Surfacing material may be necessary depending on weather conditions.
- g. No cattleguards will be necessary.
- h. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- i. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).
- j. The road will be constructed/upgraded to meet the standards of the anticipated traffic flow and all weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowing and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.
- k. A road right of way application will not be required as the new access is within the lease boundaries.

3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location. (See Map #B).
 - a. Water wells -none
 - b. Injection wells -none
 - c. Producing wells - one
 - d. Drilling wells - none
 - e. Shut-in wells - none
 - f. Temporarily abandoned wells - none
 - g. Disposal wells - none
 - h. Dry Holes - one

4. Location of Tank Batteries and Production Facilities.
 - a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted Desert Tan (10YR6/3). All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required paint color is Desert Brown.
 - b. If storage facilities/tank batteries are constructed on this lease, the facility/battery or the wellpad shall be surrounded by a containment dike of sufficient capacity to contain at a minimum, the entire content of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.
 - c. A Sundry Notice will be submitted showing placement of all production facilities prior to construction.
 - d. If at any time the facilities located on public land and authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change), BLM will process a change in authorization to the appropriate statute. The authorization

will be subject to appropriate rental or other financial obligation as determined by the authorized officer.

- e. Any necessary pits will be properly fenced to prevent any wildlife entry.
- f. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
- g. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.
- h. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic.
- i. The road will be maintained in a safe useable condition.

5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from Makin Brine Well, which is located in Section 9, T8S - R20E, Uintah County, Utah.
- b. Water will be hauled to location over the roads marked on Maps A and B.
- c. No water well is to be drilled on this lease.
- d. A copy of the approved water permit is attached.

6. Source of Construction Material

- a. Surface and subsoil materials in the immediate area will be utilized.
- b. Any gravel used will be obtained from a commercial source.
- c. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2.3. Construction material will not be located on lease.

- d. No construction materials will be removed from Federal land.

7. Methods of Handling Waste Disposal

- a. The reserve pit will be constructed so as not to leak, break, or allow discharge. Although a reserve pit liner has not been required by the Bureau of Land Management, the pit will be lined as decided by PG & E Resources Company.
- b. If a plastic nylon reinforced liner is used, it will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O.
- c. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight.
- d. After first production, produced waste water will be confined to a unlined pit or storage tank for a period not to exceed ninety (90) days. During the 90-day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.
- e. Drill cuttings are to be contained and buried in the reserve pit.
- f. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.
- g. A chemical porta-toilet will be furnished with the drilling rig.
- h. The produced fluids will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas salt water or other produced fluids will be cleaned up and removed.

8. Ancillary Facilities

There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

9. Well Site Layout

- a. The reserve pit will be located on the northeast side of the location.
- b. The flare pit will be located downwind of the prevailing wind direction on the east side, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.
- c. The stockpiled topsoil (first six inches) will be stored along the east side of the location at points 6 and 7 as shown on the rig layout diagram.
- d. Access to the wellpad will be from the west as shown on the attached rig layout.
- e. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
- f. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the Location Layout.
- g. During construction, all brush will be removed from the wellpad and access road and stockpiled separately from the topsoil.
- h. All pits will be fenced according to the following minimum standards:
 1. 39 inch net wire shall be used with at least one strand or barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
 2. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net



wire. Total height of the fence shall be at least 42-inches.

3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
 4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
 5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.
- i. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until cleanup.

10. Plans for Restoration of Surface

Producing Location

- a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.
- b. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
- c. If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.
- d. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed and all cans, barrels, pipe, etc., will be removed.
- e. The appropriate surface management agency should be contact for required seed mixture.



Dry Hole

- f. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and BLM will attached the appropriate surface rehabilitation conditions of approval.

11. Surface Ownership

Access Roads - All roads are County maintained or are on Indian or BLM lands.

Wellpad - The well pad is located on lands owned by the BLM.

12. Other Information

- a. A Class III archeological survey was conducted by Sagebrush Archeological Consultants. A copy of this report will be submitted directly to the appropriate agencies by Sagebrush Archeological Consultants.
- b. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of Historic Places;

-the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and

-a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. If the operator wishes, at any time, to relocate activities to avoid the expense of



mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- c. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- d. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure.
- e. A silt catchment dam and basin will be constructed according to BLM specifications approximately 600' southwest of the location where flagged. A copy of the BLM specifications, "Minimum Standards for Dams Impounding Under 10 Acre Feet" is attached hereto.
- f. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.
- g. A complete copy of the approved APD and ROW grant, if applicable shall be on location during construction of the location and drilling activities.
- h. This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

ONSHORE ORDER NO. 1
PG & E Resources Company
#7-24B Federal
1980' FNL and 1977' FEL
SW NE Sec. 24, T9S - R19E
Uintah County, Utah

CONFIDENTIAL - TIGHT HOLE

SURFACE USE PLAN
Page 10

- i. The operator or his contractor shall contact the BLM Offices at 801/789-1362 48 hours prior to construction activities.
- j. The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

13. Lessee's or Operator's Representative and Certification

Permit Matters

PERMITCO INC.
Lisa L. Smith
13585 Jackson Drive
Denver, CO 80241
303/452-8888

Drilling & Completion Matters


PG & E Resources Company
5950 Berkshire Lane
Suite 600
Dallas, TX 75225
Gary Whetstine - 214/750-3800
Mike McMican - 801/789-4573

Certification

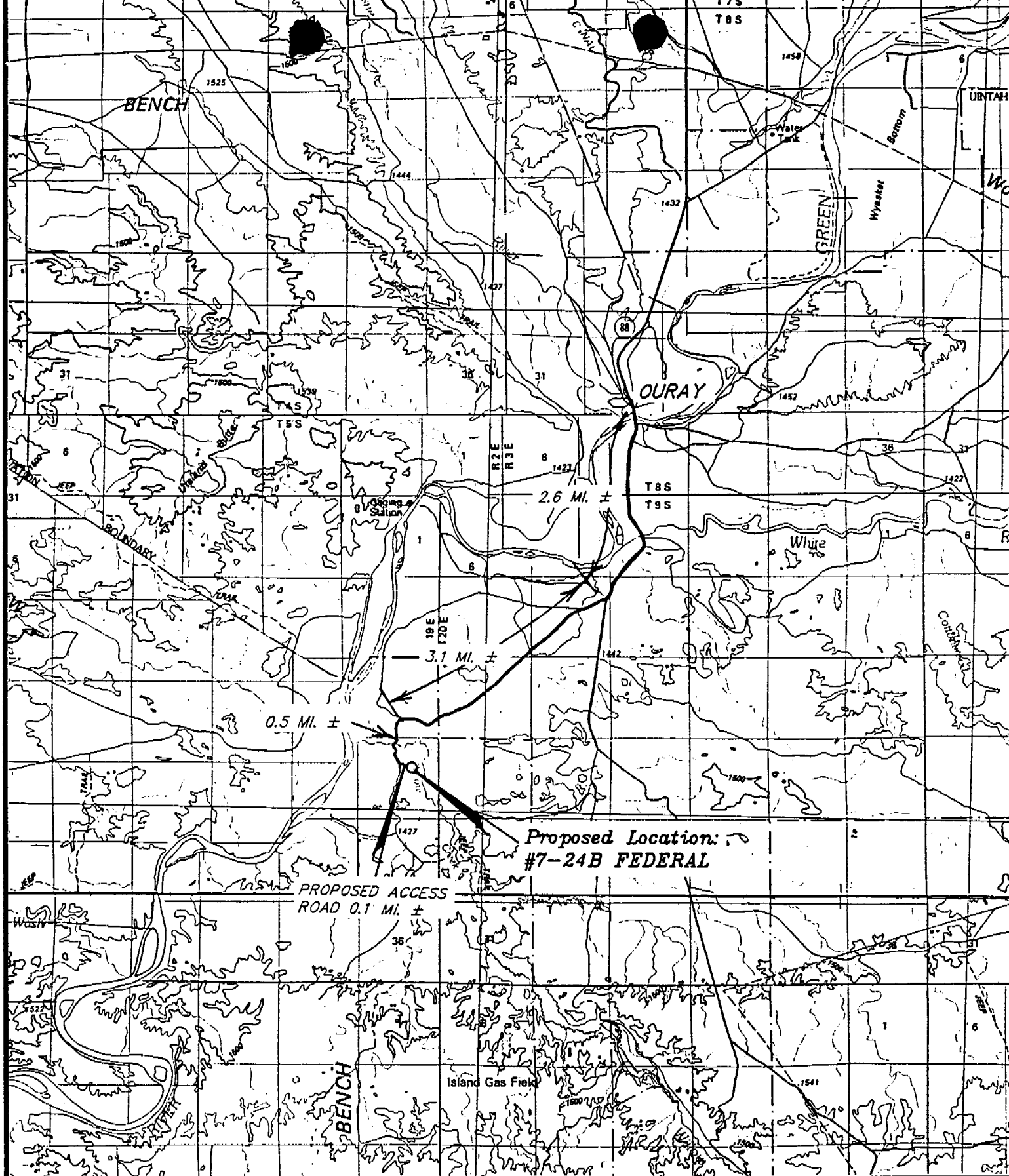
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by PG & E Resources Company and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

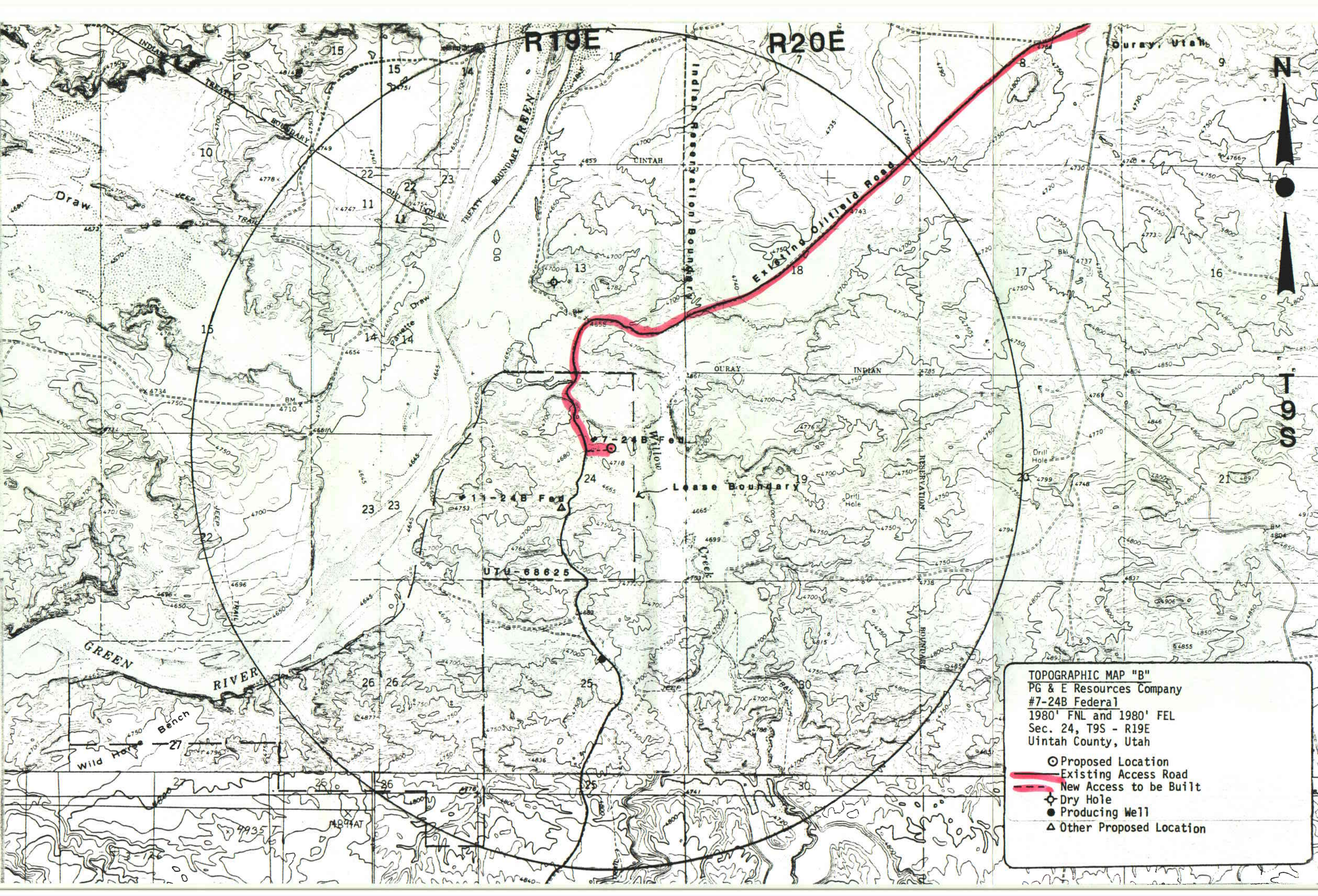
This statement is subject to the provisions of 18.U.S.C. 1001 for the filing of a false statement.

Date: April 15, 1992



Lisa L. Smith - PERMITCO INC.
Authorized Agent for:
PG & E Resources Company





TOPOGRAPHIC MAP "B"
PG & E Resources Company
#7-24B Federal
1980' FNL and 1980' FEL
Sec. 24, T9S - R19E
Uintah County, Utah

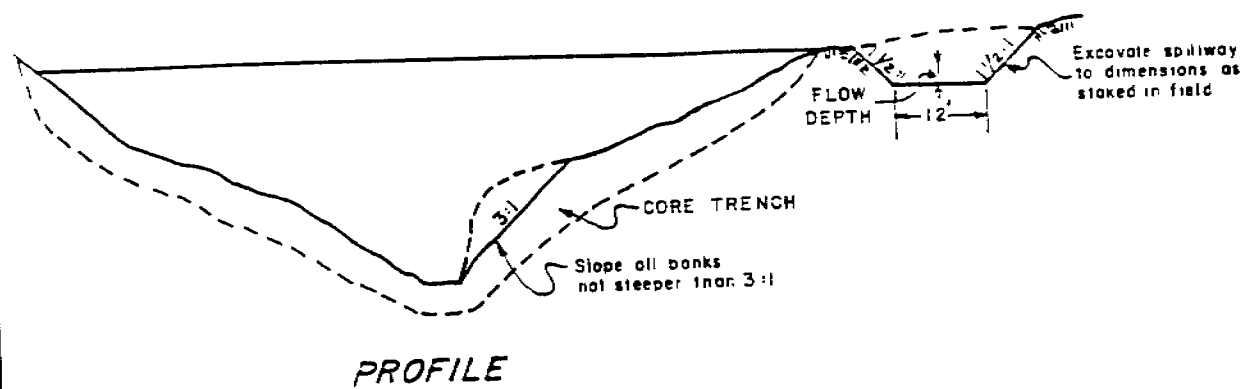
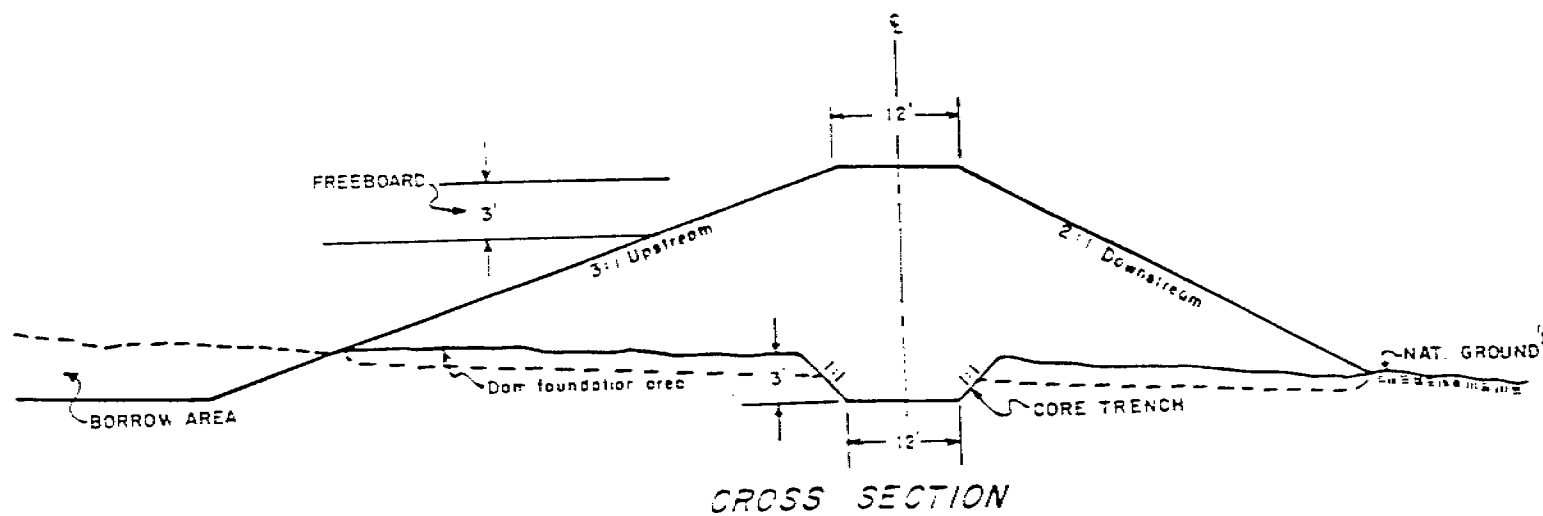
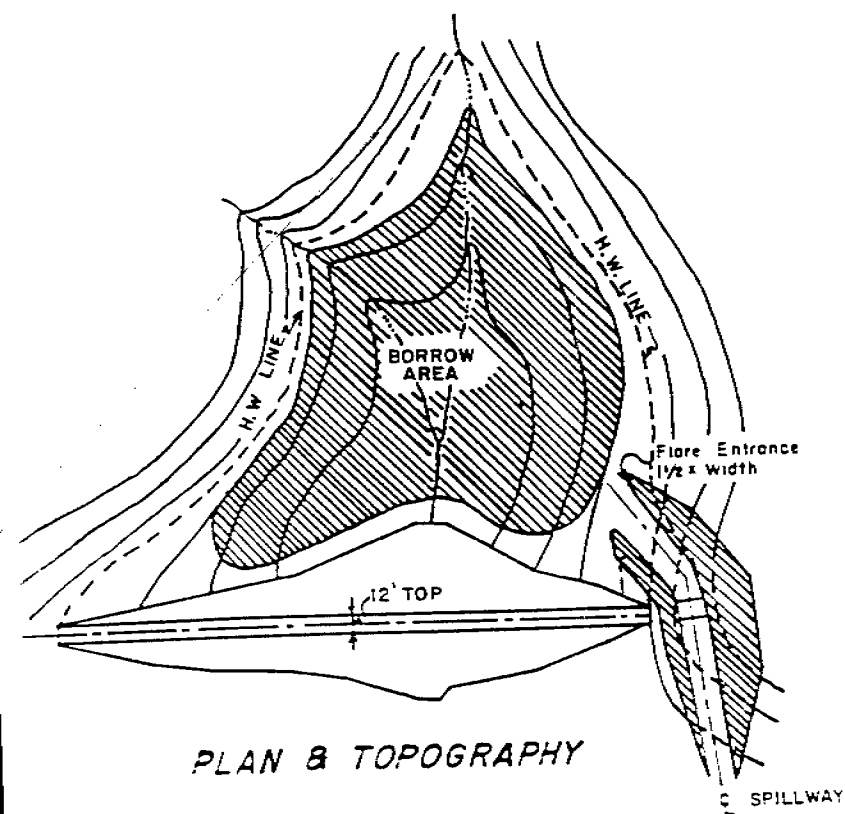
- Proposed Location
- Existing Access Road
- - - New Access to be Built
- Dry Hole
- Producing Well
- △ Other Proposed Location

1977' FEL 1980' FNL



CUT	
(6") Topsoil Stripping	= 450 Cu. Yds.
Remaining Location	= 2,290 Cu. Yds.
TOTAL CUT	= 2,740 CU.YDS.
FILL	= 1,240 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 1,430 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,430 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.



U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	
RETENTION DAM TYPICAL PLAN & SECTION	
DESIGNED _____	RECOMM. _____
DRAWN _____	RECOMM. _____ CHIEF, DIV. OF ENG.
CHECKED _____	APPROVED _____
SCALE NOT TO SCALE	
DATE _____	SHEET 1 OF 1

APPLICATION FOR TEMPORARY CHANGE OF WATER

STATE OF UTAH

Rec. by _____

Fee Paid \$ _____

Receipt # _____

Microfilmed _____

Roll # _____

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

CHANGE APPLICATION NUMBER: t92-43-08

WATER RIGHT NUMBER: 43 - 8290

This Change Application proposes to change the PLACE OF USE.

1. OWNERSHIP INFORMATION.

A. NAME: West Hazmat Trucking Corporation
ADDRESS: P.O. Box 1667, Vernal, UT 84078

INTEREST: 100%

B. PRIORITY OF CHANGE: April 13, 1992

FILING DATE: April 13, 1992

C. RIGHT EVIDENCED BY: A51641 (t92-43-06)

* DESCRIPTION OF CURRENT WATER RIGHT: *

2. SOURCE INFORMATION.

A. QUANTITY OF WATER: 0.04 cfs

B. DIRECT SOURCE: Underground Water Well

COUNTY: Uintah

C. POINT OF DIVERSION -- UNDERGROUND:

(1) N 960 feet W 130 feet from E $\frac{1}{2}$ corner, Section 9, T 8S, R 20E, SLBM
WELL DIAMETER: 18 inches WELL DEPTH: 54 feet

3. WATER USE INFORMATION.

INDUSTRIAL: from Jan 1 to Dec 31.

Makin Brine Drilling fluid for drilling
Oil & Gas Wells.

Temporary Change

MINIMUM STANDARDS FOR DAMS IMPOUNDING UNDER 10 AC. FT.

I. Site Location and Design

- A. Authorized BLM personnel shall approve site location, fill material, foundation material, and spillway size and location.
- B. Construction shall be per attached diagram.

II. Borrow Areas

- A. Borrow material shall be taken from within the reservoir basin below high water line whenever possible.
- B. Vegetation, debris and topsoil shall be removed to a depth of 12 inches below natural ground line and deposited as directed.
- C. Vegetation, debris and topsoil shall be stockpiled to be used as cover for borrow areas above the high water line or spread on downstream side of dam.
- D. Borrow areas above the high water line shall be contoured to blend into natural ground lines.

III. Core Trench and Dam Foundation

- A. A core trench shall be constructed 12 feet wide along the full length of the dam center line to a minimum depth of 3 feet or bedrock.
- B. Sides of the core trench shall be no steeper than 1:1 slope.

IV. Dam and Core Fill

- A. Fill shall be homogeneous material, preferably of high impervious, compactable soils (such as high clay content soil free of organic material, sand or rock).
- B. Lifts of fill shall not exceed 6 inches when compacted.
- C. Fill shall be built up at a consistent rate the full length of the dam.
- D. Lifts shall be compacted by at least one pass of the crawler tractor over the entire width of the lift.
- E. Downstream side of the dam shall be no steeper than 2:1 slope. Upstream side of the dam shall be no steeper than 3:1 slope.
- F. Top of the dam shall be a minimum of 12 feet wide.
- G. Maximum water depth against the dam shall be 10 feet when constructed with a crawler tractor.

V. Spillway

- A. Spillway shall be constructed through natural material.
- B. Spillway shall be constructed to divert overflow away from fill material or natural material that is an integral part of the dam.
- C. Incorporate in-place rock or hauled-in rock in spillway and at discharge point below spillway to prevent "down cutting" and "blowout" holes, when possible.
- D. Construct spillway so there is a minimum of 3 feet of freeboard on the dam.

A Class III Archeological Survey has been conducted by Sagebrush Archeological Consultants. A copy of this report will be submitted to the appropriate agencies by Sagebrush Archeological Consultants.



OPERATOR PG E Resources Co J-0595 DATE 01-90
WELL NAME Federal 7-04B
SEC S4NE 04 T 9S R 19E COUNTY Montan

43-047-30007
API NUMBER

Federal (1)
TYPE OF LEASE

CONFIDENTIAL

CHECK OFF:

☒

PLAT.

☒

BOND

☒

NEAREST
WELL

☒

LEASE

☒

FIELD
SLOM

☒

POTASH OR
OIL SHALE

PROCESSING COMMENTS:

One additional well within Sec 04.
Water Permit 43-8090 (+90-43-08) West Hazmat

APPROVAL LETTER:

SPACING:

☐

R615-2-3

N/A
UNIT

☒

R615-3-2

☐

N/A
CAUSE NO. & DATE

☐

R615-3-3

STIPULATIONS:



Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple

3 Trad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

April 21, 1992

PG & E Resources Company
5950 Berkshire Lane, Suite 600
Dallas, Texas 75225

Gentlemen:

Re: Federal #7-24B Well, 1980 feet from the north line, 1977 feet from the east line, SW 1/4 NE 1/4, Section 24, Township 9 South, Range 19 East, Uintah County, Utah

Pursuant to Utah Admin. R. 649-3-2 (formerly R. 615-3-2) and Utah Admin. R. 649-3-4 (formerly R. 615-3-4), approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq. (formerly R. 615-1 et seq.), Oil and Gas Conservation General Rules.
2. Notification within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.
6. Compliance with the requirements of Utah Admin. R. 649-3-20 (formerly R. 615-3-20), Gas Flaring or Venting, if the well is completed for production.

Page 2
PG & E Resources Company
Federal #7-24B Well
April 21, 1992

Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site should be submitted to the local health department. These drilling operations and any subsequent well operations should be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Department of Environmental Quality, Division of Drinking Water/Sanitation, telephone (801)538-6159.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-047-32227.

Sincerely,

A handwritten signature in dark ink, appearing to read 'R.J. Firth', is written over a faint, circular official stamp.

R.J. Firth
Associate Director, Oil and Gas

ldc
Enclosures
cc: Bureau of Land Management
J.L. Thompson
WO11

CONFIDENTIAL - TIGHT HOLE
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse)

Form approved. **DOGMA**
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

5. LEASE DESIGNATION AND SERIAL NO.

UTU-68625

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Federal

9. WELL NO.

#7-24B

10. FIELD AND POOL, OR WILDCAT

Natural Buttes 630

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 24, T9S - R19E

12. COUNTY OR PARISH

Utah

13. STATE

Utah

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR 214/750-3800

5950 Berkshire Lane, Suite 600

PG & E Resources Company

Dallas, TX 75225

3. ADDRESS OF OPERATOR 303/452-8888

13585 Jackson Drive

Permitco Inc. - Agent

Denver, CO 80241

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)

At surface

1980' FNL and 1977' FEL

At proposed prod. zone

SW NE Sec. 24

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

6 miles southwest of Ouray, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

656'

16. NO. OF ACRES IN LEASE

667.76

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

approx. 2000'

19. PROPOSED DEPTH

8270'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4691' GR

22. APPROX. DATE WORK WILL START*

Immediately upon approval
of this application.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	400'	170 sx or suffic to circ to surf
7-7/8"	5-1/2"	17#	8270'	600 sx or suffic to cover zones of interest.

PG & E Resources Company proposes to drill a well to 8270' to test the Wasatch formation. If productive, casing will be run and the well completed. If not productive, the well will be plugged and abandoned as per BLM and State of Utah requirements.

RECEIVED
JUN 25 1992

See Onshore Order No. 1 attached.

Please be advised that PG & E Resources Company is considered the operator of the above mentioned well. PG & E Resources Company agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the leased lands.

Bond coverage for this well is provided by Bond No. U-187011. The principal is PG & E Resources Company via surety consent as provided for in 43 CFR 3104.2.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Consultant for PG & E Resources Company DATE 4/15/92

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY [Signature] TITLE Acting Asst. Mgr. DATE 4/23/92

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

*See Instructions On Reverse Side

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

U-080-AM-128

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: PG & E Resources Company

Well Name & Number: 7-24B

Lease Number: U-68625

Location: SWNE Sec. 24 T. 9S R. 19E

Surface Ownership: Public Lands Administered by BLM

NOTIFICATION REQUIREMENTS

- | | | |
|---------------------------------|---|---|
| Location Construction | - | at least forty-eight (48) hours prior to construction of location and access roads. |
| Location Completion | - | prior to moving on the drilling rig. |
| Spud Notice | - | at least twenty-four (24) hours prior to spudding the well. |
| Casing String and Cementing | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings. |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests. |
| First Production Notice | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

The erosion dam described in the APD as mitigation for surface disturbance will not be built. The project is in a sensitive paleontological area and disturbance in addition to that required to construct the pad and access road should be avoided to protect paleontological resources.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company PG&E Resources Well No. Federal 7-24B
Location SWNE Section 24, T9S, R19E Lease No. U - 68625

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Mahogany oil shale, identified at \pm 2,440 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

A cement bond log (CBL) shall be utilized to determine the top of cement (TOC) and bond quality for the production casing.

6. Notifications of Operations

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka	(801) 781-1190
Petroleum Engineer	

Ed Forsman	(801) 789-7077
Petroleum Engineer	

BLM FAX Machine	(801) 789-3634
-----------------	----------------

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

U.S.
Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

Project
Authorization No.

492-SJ-124b

Report Acceptable Yes ☒ No ☐

Mitigation Acceptable Yes ☒ No ☐

Comments: *See attached paleontology report & form.*

1. Report Title P|G|&|E| W|E|L|L| 7|-2|4|B| F|E|D|E|R|A|L| 04947 7790
2. Development Company PG&E RESOURCES COMPANY
3. Report Date 0|4| 1|9|9|2| 4. Antiquities Permit No. 91-UT-54630
5. Responsible Institution S|A|G|E|B|R|U|S|H| County UINTAH
6. Fieldwork Location: TWN 9| S| Range 1|9| E| Section(s) 2|4|
62 65 66 69 70 71 72 73 74 75 76 77
TWN 7|8| 8|1| Range 8|2| 8|5| Section(s) 8|6|8|7| 8|8|8|9| 9|0|9|1| 9|2|9|3|
78 81 82 85 86 87 88 89 90 91 92 93
7. Resource Area D|M| TWN 9|4| 9|7| Range 9|8| 1|0| Section(s) 1|0|2|1|0|3| 1|0|4|1|0|5| 1|0|6|1|0|7| 1|0|8|1|0|9|
110 111 94 97 98 101 102 103 104 105 106 107 108 109
- PO: PONY EXPRESS, BR: BEAR RIVER, PR: PRICE RIVER, WS: WARM SPRINGS
BC: BOOK CLIFFS, HR: HOUSE RANGE, SE: SEVIER RIVER
HM: HENRY MOUNTAINS, BE: BEAVER RIVER, DX: DIXIE
KA: KANAB, ES: ESCALANTE, SJ: SAN JUAN, GR: GRAND
SR: SAN RAFAEL, DM: DIAMOND MOUNTAIN
8. Description of Examination Procedures:
The survey area included a ten acre well pad and its access road. The well pad was walked in transects spaced no more than 15 meters apart. The access road was walked in a single zig-zag transect in a 100 foot wide corridor.
9. Linear Miles Surveyed 1|0|5| 10. Inventory Type I|
and/or 112 117
Definable Acres Surveyed 1|1|8| 1|2|3|
and/or 118 123
* Legally Undefinable Acres Surveyed 1|0|
(* A parcel hard to cadastrally locate i.e., center of section)
11. Description of Findings (attach appendices, if appropriate) 12. Number Sites Found: 0|
No sites = 0 131 135
Eocene aged turtle shell fossils were found on the well pad and access road. *Some mammal also.*
13. Collection: N| Y: Yes, N: No
136
14. Actual/Potential National Register Properties Affected:
None
15. Literature Search, Location/Date: SHPO, Salt Lake City, April 8, 1992
BLM, Vernal, April 6, 1992
16. Conclusion/Recommendations:
Since no cultural resources were found cultural resources clearance is recommended. Paleontological clearance is recommended if no top soil is removed on the west side of the well pad location. Instead, it should be filled over so that potential in situ fossils in the area will not be adversely affected.
17. Signature of Administrator & Field Supervisor: Administrator Michael R. Paech
Field Supervisor Michael R. Paech

**A CULTURAL RESOURCES SURVEY OF
PG&E WELL #7-24B FEDERAL AND ACCESS ROAD,
UINTAH COUNTY, UTAH**

by

**Michael R. Polk
Principal Investigator**

Prepared for:

**PG&E Resources Company
85 South 200 East
Vernal, Utah 84078**

Prepared by:

**Sagebrush Archaeological Consultants
3670 Quincy Avenue, Suite 203
Ogden, Utah 84403**

Under Authority of Cultural Resources Use Permit No. 91-UT-54630

and

Utah State Antiquities Permit No. U-92-SJ-124b

Archaeological Report No. 530

April 15, 1992

INTRODUCTION

In April 1992, PG&E Resources Company (PG&E) requested that Sagebrush Archaeological Consultants (Sagebrush) conduct a cultural resources inventory of well pad #7-24B Federal and its associated access road. The project area is located in T. 9S., R. 19E., S. 24 on the 7.5' USGS Ouray, Utah Quadrangle (1964)(Figure 1). The well head itself lies in the SWNE of the section (1980 FNL, 1977 FEL). The well location and access lie on land controlled by the Bureau of Land Management (BLM). The project was carried out by the author under authority of Cultural Resources Use Permit No. 91-UT-54630 and Utah State Antiquities Permit No. U-92-SJ-124b.

A file search was carried out by Heather Weymouth at the State Historic Preservation Office in Salt Lake City on April 8, 1992 to determine if any cultural resources projects had been conducted or sites recorded in the project area. In addition, a file search was also done by the author on April 6, 1992 at the Bureau of Land Management, Vernal District Office prior to conducting the fieldwork.

Two projects have been carried out in the vicinity of #7-24B Federal. In 1979 and 1980 Archeological-Environmental Research Corporation (AERC) inventoried a number of rectangular sample survey units for Mapco. Many of these units were located in S. 24 and adjacent sections. Seven sites were located in and near the project area during that survey including 42Un828, 829, 831, 835, 836, 846 and 859. Following is a brief description of each of these sites:

Site 42Un828: a small prehistoric non-diagnostic lithic scatter with a temporary camp and surface quarry area. It has non-diagnostic lithics only.

Site 42Un829: a small prehistoric lithic scatter located on a point of a hill near Willow Creek. Only non-diagnostic lithics were found on the site.

Site 42Un831: a small ethnohistoric and historic petroglyph site located near Willow Creek.

Site 42Un835: a small petroglyph panel located on a cliff near Willow Creek.

Site 42Un836: a small lithic scatter on a ridge with quartzite knife blade or lance point, biface chopper-cobblestone, biface scraper of mudstone, primary flakes, pounding and grinding stone.

Site 42Un846: historic site with three intact log structures and corral, probably representing a former homestead. Historic artifacts present suggest occupation from late 19th century to 1920 or 1930.

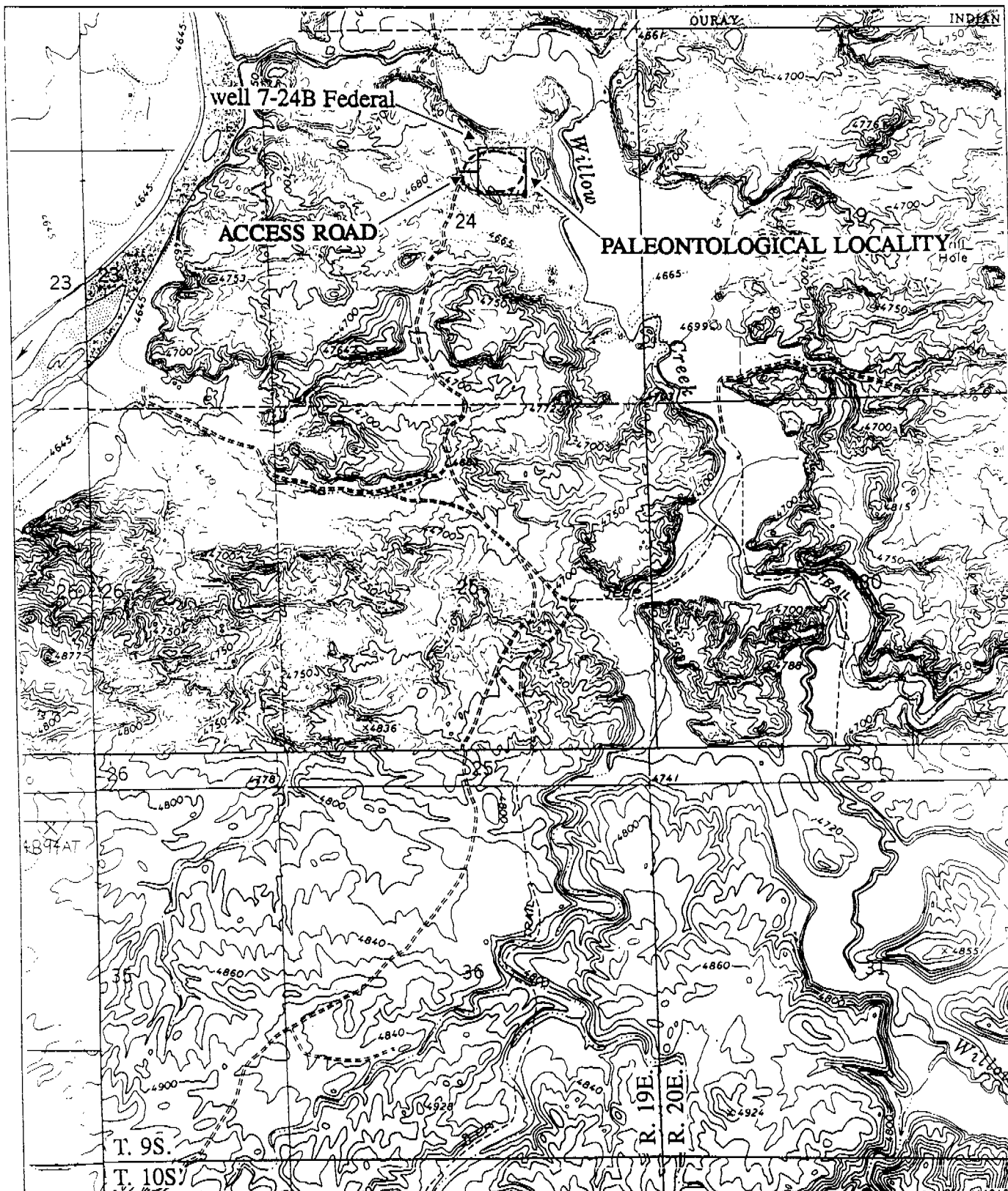
Site 42Un859: a surface prehistoric cobble quarry site which extends along the west bank of the Green River. There were no diagnostic tools or cultural depth on the site.

In 1980 Utah Archaeological Research Corporation (UTARC) conducted a survey of a Northwest Pipeline route. Two sites, 42Un966 and 967, were found in nearby S. 23 and 24.

Site 42Un966: a small lithic scatter with primary and secondary flakes and of chalcedony and quartzite and a chert core and quartzite chopper. There were no associated diagnostic artifacts or features on the site.



Figure 1. Location of PG&E Resources well 7-24B Federal. Taken from: USGS 7.5' Quadrangles Ute and Butte (1964), Ouray (1964), Big Pack Mtn, NW (1968; P.R. 1987) and Moon Bottom, Utah (Prov. Ed. 1985).



Location of PG&E Resources well 7-24B Federal, showing the access road and Paleontological locality discovered during the cultural resources inventory. Taken from: USGS 7.5' Quad-ranges Ute land Butte (1964), Ouray (1964), Big Pack Mtn., NW (1968; P.R. 1987) and Moon Bottom, Utah (Prov. Ed. 1985).

Site 42Un967: a panel of petroglyphs found on a south facing rock outcrop. It is called Omar's Panel and includes Ute drawings of cattle, horses, Indians, flags, shields, deer, bears, letter and human figures.

The NRHP was also consulted prior to conducting the survey. No register sites were found to be in the vicinity of the current project area.

ENVIRONMENT

The well pad and access road lie on dissected tableland south of Ouray between Willow Creek and the Green River. The area is characterized by low eroding benches, escarpments, bedrock outcrops of sandstone and claystone. Soils in the area are sandy silts with variable densities of lag gravel deposits. The elevation of the area ranges from about 4680 to 4700 feet a.s.l. Vegetation of the area covers about 20 percent of the surface and is predominately shadscale community species. Noted species include shadscale, four-wing saltbush, rabbitbrush, bunchgrass, ricegrass, greasewood and buckwheat.

The nearest permanent water source is Willow Creek which is located about one-quarter mile to the east. Natural disturbance in the area is primarily from sheetwash erosion. The only cultural disturbance is the existing oil field road which passes just west of the proposed well pad area.

METHODOLOGY

The survey area covered during this project consists of a 10 acre parcel of land centered on the well head and a short access road to the west which is about 300 feet long. The well pad area was inventoried by the author in parallel transects spaced 15 meters apart. The access road was walked in two parallel transects spaced 10 meters apart to cover a corridor width of 100 feet.

In addition to the author's work, Alden Hamblin, paleontologist with the Utah State Fieldhouse of Natural History in Vernal, also walked the well pad and access road in order to evaluate the paleontological resources of the project area.

RESULTS

No cultural resources were identified within the project area. However, highly weathered Eocene age turtle shell fossils were found on the well pad and a few on the access road. The paleontological site represents a low density scatter. Because of the relatively large number of fossils found on the pad a local paleontologist, Mr. Alden Hamblin, was asked to evaluate the significance of the site. He determined that the turtle shell fossils were generally weathered and that most lacked context. He also noted two fragments of possible fossil mammal bone on a sandstone formation southeast of the location. A letter from Mr. Hamblin and a paleontological locality form for this find are attached as an appendix.

RECOMMENDATIONS

Since no archaeological sites or isolates were found during the inventory of the well pad and access road, cultural resources clearance is recommended. Mr. Hamblin's recommendation was that well site construction be allowed to proceed with the stipulation that top soil not be removed on the west side of the well pad location. Instead, it should be filled over so that potential in situ fossils in the area will not be adversely affected (see appendix). If that stipulation is followed, paleontological clearance is recommended.

This investigation was conducted with techniques which are considered to be adequate for evaluating cultural and paleontological resources which could be adversely affected by the project. However, should such resources be discovered during construction, a report should be made immediately to the BLM District Archaeologist, Vernal District Office, Vernal, Utah.

APPENDIX

April 11, 1992

Mike Polk
Sagebrush Archaeological Consultants
4263 Monroe Boulevard
Ogden, Utah 84403

RE: Paleontology at PG&E Federal #7-24B

There is scattered, weathered turtle shell around the area except the slight mound where the location center stake is. The hills to the southwest and east of the location have clusters of turtle shell weathering out. Two joining fragments of a possible mammal bone (1.5 X 4 inches) were seen on the sandstone south-southeast of the location. There is some scattered turtle shell near the proposed access road where it leaves the main road. There is a gilsonite vein running northwest through the area east of the location.

It was decided that leaving the location as originally placed was the best solution for the paleontology of this area. The small swale west of the location has scattered turtle shell. This area will be receiving fill during location construction which will actually serve as a protection for this fossil material. The top soil in this area should not be removed as this will also remove the fossils on the surface. Some turtle may be encountered during construction, but unless something real significant (large mammal bones, complete turtles, etc.) turns up, it should not be a problem.

There is always some potential for finding fossil mammal bone in the Uinta Formation. If significant looking bone material is encountered during construction, a paleontologist should be called to evaluate it.

Sincerely,



Alden H. Hamblin
Paleontologist
235 East Main
Vernal, Utah 84078

92T&E038

SPECIAL STATUS PLANT SPECIES REPORT

Proposed Project: PG&E Gas Well - 7-24B

Proposed Location: Township 9 South, Range 19 East,
section 24 SWNE

Brief Description of Proposed Project: PG&E proposes to construct a well site at the above location. Access would be primarily along existing roads; however, a new access road, .1 mile in length and 30' wide would be built from the existing oil service road to the well site.

Setting: The well would be located on a bench west of Willow Creek. Existing vegetation may be categorized as a mixed desert shrub.

Methodology of Exam: Existing resource area data revealed a concern regarding three plant species: Sclerocactus glaucus, S. argillacea, and S. suffrutescens. A field exam was conducted in mid May, 1992, by Ron Kass, consultant botanist for PG&E. His onsite investigation revealed none of these species would be involved in either the well pad or access road. (Refer to the attached T&E plant survey results.) No additional field exam was deemed necessary.

Follow-up Action and/or Recommendation: Based on the field inventory by Ron Kass, it is my opinion a no affect situation exists and that the proposed well, as shown on the attached map, is cleared from a special status plant species perspective.

June 18, 1992
Date

Attachment

Jean Nitschke-Sinclear
Jean Nitschke-Sinclear, District T&E Plant Specialist

PG&E RESOURCES CO.

RIVERBEND PROJECT

RESULTS OF T&E PLANT SURVEYS

WELL SITE	RESULTS
5-31B	1 juvenile <i>Sclerocactus glaucus</i> located. Moved pad to avoid cactus. Jean Sinclair (BLM) does not require buffer zone. Cactus should be fenced. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.
7-31B	5 adults and 3 juvenile cacti located on pad and access road. Moved pad and access road to avoid. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.
5-6E	1 juvenile cactus located. Jean Sinclair (BLM) wants cactus fenced to protect it. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.
6-29B	No cacti on pad or road. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.
4-32B	No cacti on pad or road. Was unable to locate cacti described in Utah Natural Heritage Database. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.
7-24B	No cacti on pad or road. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.
1-26B	No cacti on pad or road. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.
13-30C	No cacti on pad or road. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.
9-36B	No cacti on pad or road. Area was resurveyed after BLM survey because it looked like potential cacti habitat. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.

Post-It™ brand fax transmittal memo 7871

of pages > 2

To: Jim LaFavers	From: Jerry Jacob
Co: P&E	Co: PIC Technology
Dept: Rogers	Phone: 303-329-0600
Fax:	Fax:

PG&E RESOURCES CO.

RIVERBEND PROJECT

RESULTS OF T&E PLANT SURVEYS

WELL SITE	RESULTS
13-31C	No cacti on pad or road. Area was resurveyed after BLM survey because it looked like potential cacti habitat. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.
13-36A	Adequately cleared by BLM. No cacti or other T&E plants.
7-30C	Adequately cleared by BLM. No cacti or other T&E plants.
7-19B	Adequately cleared by BLM. No cacti or other T&E plants.
11-24B	Adequately cleared by BLM. NO cacti or other T&E plants.
CORRIDOR TO SALES PIPELINE - SOUTH SIDE OF PROJECT AREA	
East Side	Field reconnaissance of this proposed corridor showed that it has the potential to support <i>Sclerocactus glaucus</i> . It is recommended that this corridor be surveyed for cacti. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.
West Side	Field reconnaissance of this proposed corridor showed that it has the potential to support <i>Sclerocactus glaucus</i> . It is recommended that this corridor be surveyed for cacti. No <i>Schoenocrambe argillacea</i> or <i>Schoenocrambe suffrutescens</i> were located.

NOTES:

No *Schoenocrambe argillacea* or *Schoenocrambe suffrutescens* were located on well sites, access roads or pipeline corridors. Nor is there potential habitat for these two species on the well sites, access roads or proposed pipeline corridors inventoried. Further surveys for these species are not necessary due to lack of suitable habitat within the project area.

VERNAL DISTRICT OFFICE
THREATENED AND ENDANGERED SPECIES CLEARANCE RECORD

PROPOSED ACTION PE & E 7-24B
CAS WRU

Township 7S Range 19E Section 24

Geographical Area Willow Creek USGS Map _____ Acres _____ Miles _____

THREATENED AND ENDANGERED SPECIES INVENTORY: Complete ☒ Partial _____

Conducted By W.E. Smith Literature Review _____

THREATENED, ENDANGERED, OR SENSITIVE SPECIES PRESENT:

Suspected _____

Confirmed _____

ADVERSE IMPACT POTENTIAL:

Confirmed Animals
None _____ Slight _____ Significant _____ Unknown _____

Known or Potential Habitat
None _____ Slight _____ Significant _____ Unknown _____

FORMAL SECTION 7 CONSULTATION WITH USF&WS REQUESTED: Yes _____ No Yes

NOTES Willow Creek
interior habitat was found within
2 mile of project location

Signature W.E. Smith Title Wild Bio Date 6-14-91
0800s: 01/31/91



May 19, 1992

RECEIVED

MAY 24 1993

DIVISION OF
OIL, GAS & MINING

Utah Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attn: Tammi Searing

Re: PG & E Resources Company
#7-24B Federal
1980' FNL and 1977' FEL
SW NE Sec. 24, T9S - R19E
Uintah County, Utah

Dear Tammi,

The above mentioned well was approved by your office on April 21, 1992 under API No. 43-047-32227.

Since in excess of one year has lapsed since the approval date, we are submitting a new application for this well. It is PG & E's intent to drill this well prior to 9/23/93 and we have also requested an extension of our BLM A.P.D. A copy of that Sundry Notice is attached.

If you should have any questions or need additional information, please feel free to contact me. Thanks for your assistance in this matter.

Sincerely,

PERMITCO INC.

Lisa L. Smith
Consultant for:
PG & E Resources Company

Enc.

cc: PG & E Resources Company - Dallas, TX
PG & E Resources Company - Vernal, UT

Permitco Incorporated
A Petroleum Permitting Company

(June 1990)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FORM APPROVED

Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

214/750-3800

6688 N. Central Expressway, Suite 1000

PG & E RESOURCES COMPANY**Dallas, TX 75206**

3. Address and Telephone No.

303/452-8888

13585 Jackson Drive

PERMITCO INC. - Agent**Denver, CO 80241**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

1980' FNL and 1977' FEL**SW NE Sec. 24, T9S - R19E**

5. Lease Designation and Serial No.

U-68625

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Federal #7-24B

9. API Well No.

43-47-32227

10. Field and Pool, or Exploratory Area

Natural Buttes 630

11. County or Parish, State

Uintah County, Utah12. **CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA****TYPE OF SUBMISSION**

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **Extend Permit Expiration**

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The A.P.D. for the subject well was approved by your office on 6/23/92. Since that time, the wellpad was constructed and subsequently reclaimed, however, the well was never drilled.

It is PG & E's intent to drill this well, however, we will be unable to contract the desired rig prior to the expiration date on 6/23/93. Therefore, we are requesting that you grant a 90 day extension of the expiration date of this permit, extending it to 9/23/93.

If you should have any questions regarding the subject matter, please contact Mr. Jim LaFevers at 214/750-3800.

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS & MINING

DATE: 5-25-93

cc: State of Utah - Division of Oil, Gas & Mining
PG & E Resources Company - Dallas, TX
PG & E Resources Company - Vernal, UT

RECEIVED

MAY 24 1993

DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed



Title

Consultant for:**PG & E Resources Company**

Date

05/20/93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

***See Instruction on Reverse Side**

**STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING**

CONFIDENTIAL - TIGHT HOLE

5. Lease Designation and Serial No.

UTU-68625**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work

DRILL ☒**DEEPEN** ☐**PLUG BACK** ☐

b. Type of Well

Oil
Well ☐Gas
Well ☒

Other

Single
Zone ☒Multiple
Zone ☐2. Name of Operator **214/750-3800 6688 N. Central Expressway, Suite 1000**
PG & E Resources Company Dallas, TX 752063. Address of Operator **303/452-8888 13585 Jackson Drive**
Permitco Inc. - Agent Denver, CO 802414. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface **1980' FNL and 1977' FEL**At proposed prod. zone **SW NE Sec. 24**

6. If Indian, Allottee or Tribe Name

N/A

7. Unit Agreement Name

N/A

8. Farm or Lease Name

Federal

9. Well No.

#7-24B

10. Field and Pool, or Wildcat

Natural Buttes 630

11. Sec., T., R., M., OR Bk.

and Survey or Area

Sec. 24, T9S - R19E

14. Distance in miles and direction from nearest town or post office*

6 miles southwest of Ouray, UT

12. County or Parish

Uintah

13. State

Utah

15. Distance from proposed*

location to nearest
property or lease line, ft.

(Also to nearest drlg. line, if any)

656'

16. No. of acres in lease

1667.7617. No. of acres assigned
to this well**40**

18. Distance from proposed location *

to nearest well, drilling, completed,

or applied for, on this lease, ft.

Approx. 2000'

19. Proposed depth

8270'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

4691' GR

22. Approx. date work will start*

Upon approval of this application

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	9-5/8"	36#	400'	170 sx or suffic to circ to surf.
7-7/8"	5-1/2"	17#	8270'	600 cubic feet or suffic to cover

zones of interest.

PG & E Resources Company proposes to drill a well to 8270' to test the Wasatch and Green River formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

Bond coverage for this well is provided under Bond No. 8063-38-07 and 8057-26-00.

This well was originally approved by your office on April 21, 1992 under API No. 43-047-32227.

RECEIVED**MAY 24 1993****DIVISION OF
OIL GAS & MINING**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Consultant for:

Signed

*[Signature]*Title **PG & E Resources Co.**Date **05/19/93**

(This space for Federal or State office use)

Permit No.

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

***See Instructions On Reverse Side**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

CONFIDENTIAL - TIGHT HOLE

5. Lease Designation and Serial No.

UTU-68625

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N/A

7. Unit Agreement Name

N/A

8. Farm or Lease Name

Federal

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Sec. 24, T9S - R19E

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Uintah

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1a. Type of Work

DRILL ☒**DEEPEN ☐****PLUG BACK ☐**

b. Type of Well

Oil

Well ☐

Gas

Well ☒

Other

Single

Zone ☒

Multiple

Zone ☐

2. Name of Operator

214/750-3800**6688 N. Central Expressway, Suite 1000****PG & E Resources Company****Dallas, TX 75206**

3. Address of Operator

303/452-8888**13585 Jackson Drive****Permitco Inc. - Agent****Denver, CO 80241**

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

1980' FNL and 1977' FEL

At proposed prod. zone

SW NE Sec. 24

14. Distance in miles and direction from nearest town or post office*

6 miles southwest of Ouray, UT15. Distance from proposed*
location to nearest
property or lease line, ft.

(Also to nearest drlg. line, if any)

656'

16. No. of acres in lease

1667.7617. No. of acres assigned
to this well**40**

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to nearest well, drilling, completed,

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Approx. 2000'

19. Proposed depth

8270'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

4691' GR

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OIL, GAS & MINING**

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24.

Signed

**Consultant for:**Title **PG & E Resources Co.**Date **05/19/93**

(This space for Federal or State office use)

Permit No.

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

***See Instructions On Reverse Side**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

CONFIDENTIAL - TIGHT HOLE

5. Lease Designation and Serial No.

UTU-68625

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Uintah

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Utah

1a. Type of Work

DRILL ☒**DEEPEN ☐****PLUG BACK ☐**

b. Type of Well

Oil

Well ☐

Gas

Well ☒

Other

Single

Zone ☒

Multiple

Zone ☐

2. Name of Operator

214/750-3800**6688 N. Central Expressway, Suite 1000****PG & E Resources Company****Dallas, TX 75206**

3. Address of Operator

303/452-8888**13585 Jackson Drive****Permitco Inc. - Agent****Denver, CO 80241**

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RECEIVED**MAY 24 1993****DIVISION OF
OIL, GAS & MINING**

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24.

Signed



Consultant for:

Title **PG & E Resources Co.**Date **05/19/93**

(This space for Federal or State office use)

Permit No.

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

***See Instructions On Reverse Side**

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: PG&E 43-047-32227

WELL NAME: UTE 7-24B

Section 24 Township 9S Range 19E County UINTAH

Drilling Contractor EXETER

Rig # 7

SPUDDED: Date 6/25/93

Time _____

How ROTARY

CONFIDENTIAL

Drilling will commence _____

Reported by JAKE NEVES

Telephone # 1-828-7244

Date 6/25/93 SIGNED FRM

June 29, 1993



State of Utah Dept. of Natural Resources
Division of Oil, Gas & Mining
355 West Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84186

RE: Report of Water Encountered
During Drilling - Form 7
Federal 7-24B
Section 24, T9S-R19E
Uintah County, Utah

Gentlemen:

As shown on the attached report, PG&E Resources Company encountered water during the drilling of the referenced well from 135' to 137'.

If you have any questions or need further information, please contact the undersigned at (214) 706-3640.

Very truly yours,

Cindy Keister
Regulatory Analyst

CRK/ck

Attachment

cc: BLM - Vernal District Office
Regulatory File
Central Files

RECEIVED

JUL 02 1993

DIVISION OF
OIL GAS & MINING

REPORT NO.
125021

PAGE NO. 1

TEST DATE:
07-JUL-1993

STAR

Schlumberger Transient Analysis Report Based on Model Verified Interpretation Of a Schlumberger Well Test

DEBORAH
Schlumberger

JUL 10 1993

DIVISION OF

COMPANY: PG&E RESOURCES

43-042-32227

WELL: FEDERAL 7-24-B - DST GAS & MINING

TEST IDENTIFICATION

Test Type MFE-OH-DST
Test No. ONE
Formation GREEN RIVER
Test Interval (ft) 4670 to 4816
Depth Reference KELLY BUSHING

WELL LOCATION

Field NATURAL BUTTES
County UTAH
State UTAH
Sec/Twn/Rng 24-9S-19E
Elevation (ft) 4707

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 5410
Hole Size (in) 7.875
Tested Interval/Net Pay (ft) .. 146 / 40

MUD PROPERTIES

Mud Type SEA MUD/SALT
Mud Weight (lb/gal) 9.4
Filtrate Chlorides (ppm) 85000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 2107
Gas Cushion Type NONE
Surface Pressure (psi) -
Liquid Cushion Type NONE
Cushion Length (ft) -

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 4242 / 3.80
Collar Length (ft)/I.D. (in) .. 378 / 2.375
Packer Depths (ft) 4664, 4670, 4816.
Bottomhole Choke Size (in) ... 0.93
Gauge Depth (ft)/Type 4639/J-1117

NET PIPE RECOVERY

Volume	Fluid Type	Properties
1085 ft	DRILLING MUD	85000 ppm
	W/TRACE OF	
	OIL	(APPROX. 3 GALS.)

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
0.08 cuft	Gas	
TRACE	Oil	
Pressure: 125		GOR: 0 GLR: 0

INTERPRETATION RESULTS

Model of Behavior HOMOGENEOUS
Fluid Type Used for Analysis.. TOTAL FLUID
Reservoir Pressure (psi) 1843 @ 4633 Ft
Transmissibility (md.ft/cp) .. 27.94
Effective Permeability (md) .. 1.544 (to Oil)
Skin Factor -2.02
Radius of Investigation (ft) .. 12

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API) ASSUMED 40
Gas Gravity ASSUMED 0.65
GOR (scf/STB) ASSUMED 0
Water Cut (%) 0
Viscosity (cp) 2.21
Total Compressibility (1/psi) .. 5.516E-05
Porosity (%) 10
Reservoir Temperature (F) 130
Form.Vol.Factor (bbl/STB) 1.007

PRODUCTION RATE DURING TEST: 208 BLPD - Q-Last

COMMENTS:

DURING THIS DRILLSTEM TEST THE ZONE PRODUCED DRILLING MUD WITH A TRACE OF OIL. COMMUNICATION WITH THE MUD ANNULUS OCCURRED WHEN THE TOOL WAS CYCLED CLOSED FOR THE INITIAL AND FINAL SHUTIN PERIODS, MAKING THE EARLY TIME SHUTIN DATA INVALID. THE FINAL SHUTIN DATA WAS ANALYZED USING LOG-LOG ANALYSIS TECHNIQUES TO DETERMINE THE MODEL OF RESERVOIR BEHAVIOR AND PARAMETERS OF P^* , Kh/u , AND SKIN. THE BUILDUP WAS MATCHED USING A HOMOGENEOUS RESERVOIR MODEL WITH SKIN AND VARIABLE WELLBORE STORAGE EFFECTS IN ORDER TO MODEL THE EARLY TIME BUILDUP RESPONSE (SEE ANALYSIS PLOTS, PAGES 2-5). BASED ON THE MATCH AND THE ASSUMPTIONS MADE, THE ZONE APPEARS TO HAVE LOW EFFECTIVE PERMEABILITY AND A SLIGHTLY STIMULATED WELLBORE CONDITION. FOR QUESTIONS ABOUT THIS REPORT, PLEASE CONTACT DEBORA HALLFORD AT (303) 375-8118.

REPORT NO.
125021

PAGE NO. 2

CALCULATIONS
LIQUID WELL
LOG-LOG ANALYSIS

Schlumberger

LOG (DELTA P) VS. LOG (DELTA T) PLOT

HOMOGENEOUS, INFINITE SYSTEM
SKIN & VARIABLE WELLBORE STORAGE
PD VS. TD/CD

DATA IDENTIFICATION

FLOW PERIOD * 2. BUILDUP
P = 491.96 PSI @ DELTA T=0
FLOW RATE CHANGE = 208.00 STB/D LIQUID

DOWNHOLE RATES (IN RESERVOIR BBL/D)

OIL 209.46 (WITH Bo=1.007 BBL/STB)

COMPUTED WITH PRODUCING WATER CUT = 0.000
AND PRODUCING GAS/LIQUID RATIO = 0.000 SCF/STB

TYPE-CURVE MATCH

CURVE MATCH, CD*E (2S) = 2.25886E-2
PRESSURE MATCH, PD/DELTA P = 9.447E-04 1/PSI
TIME MATCH, (TD/CD)/DELTA T = 241.45 1/HR

CALCULATIONS

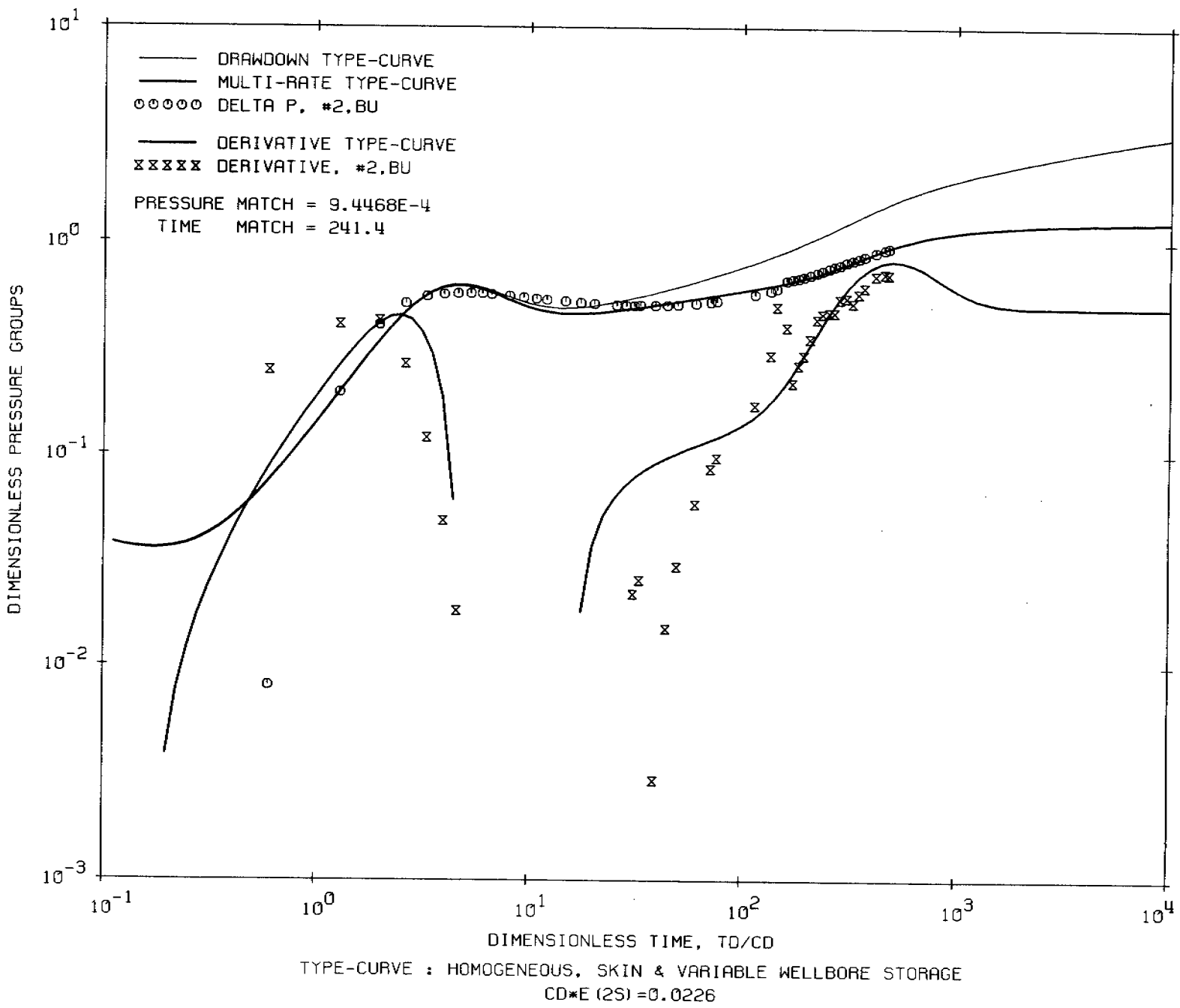
K/MU (TOTAL) 0.6985 MD/CP
KH/MU (TOTAL) 27.940 MD.FT/CP
Ko (EFFECTIVE TO OIL) 1.544 MD
C 3.414E-05 BBL/PSI
CD 1.284
SKIN, S -2.020
RADIUS OF INVESTIGATION ... 12.035 FT (@ 1.36 HR)

COMMENTS

USING HOMOGENEOUS, SKIN & VARIABLE WELLBORE STORAGE
RESERVOIR MODEL; Ca/C=69.18 (*1) 1.78E-4 (*2) 1.47 (*3)
CoD=3.22 (*1) 15.01 (*2) 94.45 (*3)

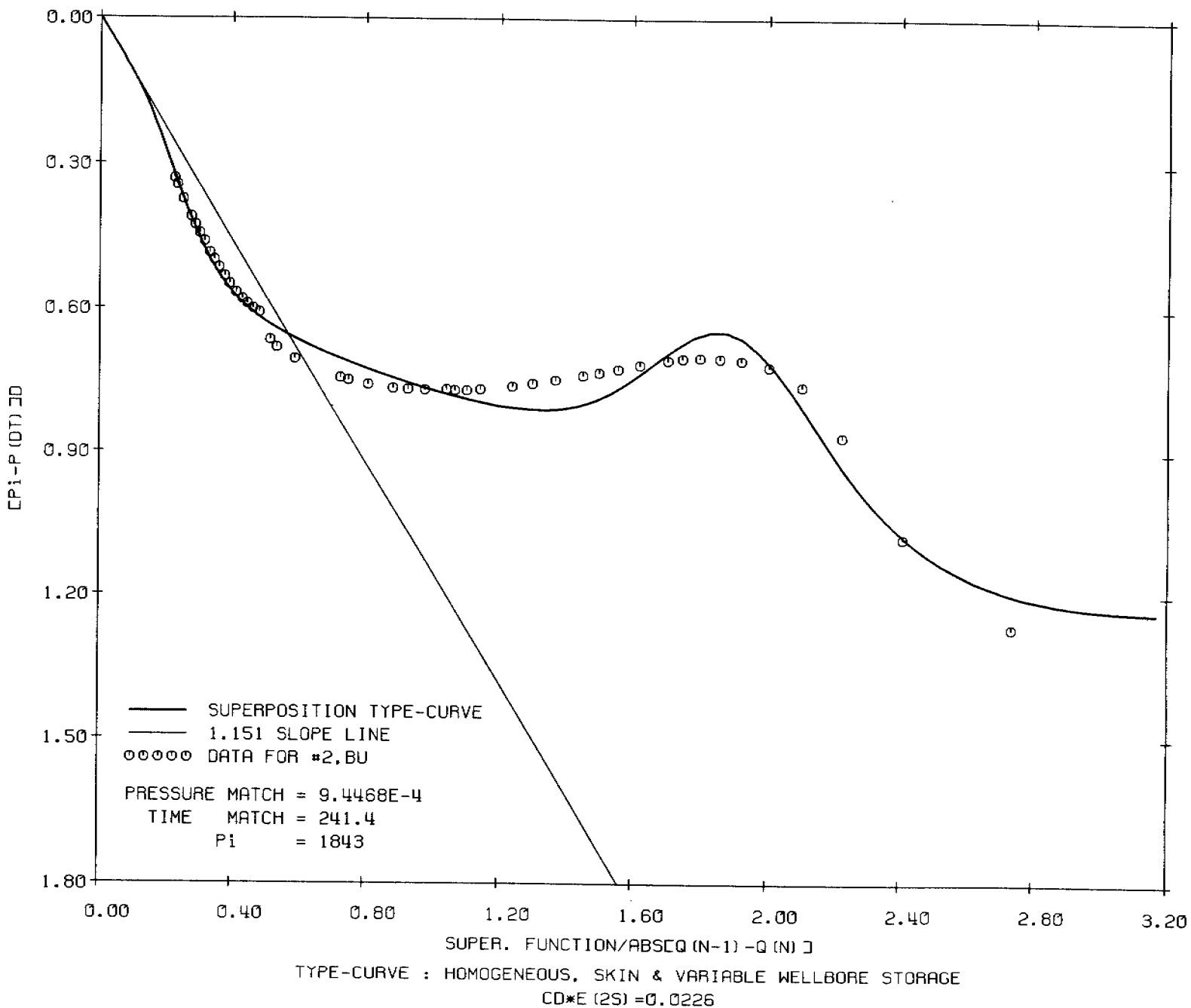
DIMENSIONLESS MULTI-RATE
PLOT: LOG-LOG MATCH FOR
#2, BU

Schlumberger



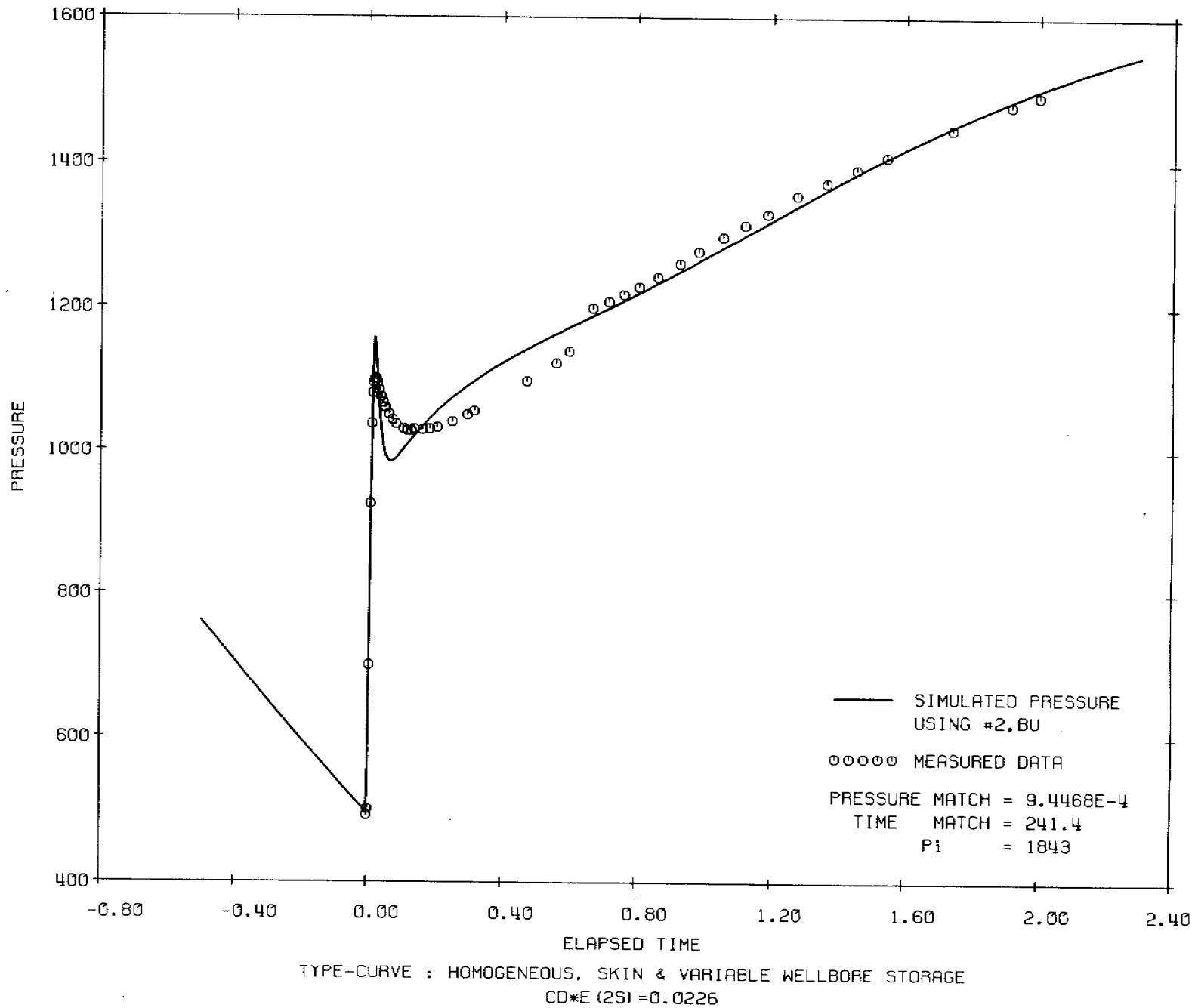
DIMENSIONLESS SUPERPOSITION
PLOT FOR
#2.BU

Schlumberger



PRESSURE HISTORY MATCH
SIMULATION

Schlumberger



REPORT NO.
125021

PAGE NO. 6

FLOWRATE DATA
USED IN ANALYSIS
P G & E RESOURCES CO.

Schlumberger

Page 1 of 1

ET VS. FLOWRATE

USING CALCULATED LAST FLOWRATE AND EFFECTIVE PRODUCING TIME
P G & E RESOURCES - FEDERAL 7-24-B - DST #1 - 07-JUL-1993

	ET (hrs) PRIOR TO FINAL SHUTIN	LIQUID FLOWRATE (BLPD)
1	-1.3600	208.00
2	0.00000E-01	0.00000E-01

ANY INTERPRETATIONS OR RECOMMENDATIONS ARE OPINIONS AND NECESSARILY BASED ON INFERENCES AND EMPIRICAL FACTORS AND ASSUMPTIONS, WHICH ARE NOT INFALLIBLE. ACCORDINGLY, SCHLUMBERGER - GEOQUEST CANNOT AND DOES NOT WARRANT THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION OR MEASUREMENT. UNDER NO CIRCUMSTANCES SHOULD ANY INTERPRETATION OR MEASUREMENT BE RELIED UPON AS THE SOLE BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT OR PRODUCTION DECISION OR ANY PROCEDURE INVOLVING RISK TO THE SAFETY OF ANY DRILLING VENTURE, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE CUSTOMER HAS FULL RESPONSIBILITY FOR ALL DRILLING, COMPLETION, WELL TREATMENT, AND PRODUCTION PROCEDURES, AND ALL OTHER ACTIVITIES RELATING TO THE DRILLING OR PRODUCTION OPERATION.

MODEL-VERIFIED (tm) REPORT

Schlumberger

THIS IS SCHLUMBERGER'S MODEL-VERIFIED (tm) INTERPRETATION REPORT. WITH MODEL-VERIFIED (tm) INTERPRETATION, THE GOAL OF THE SCHLUMBERGER ANALYST IS TO CONSTRUCT A TOTAL SYSTEM RESERVOIR MODEL THAT MATCHES ALL OF YOUR WELL TEST DATA. THIS PROVIDES YOU WITH RELIABLE ANSWERS THAT YOU CAN HAVE CONFIDENCE IN.

FROM THE DIAGNOSTIC LOG-LOG PLOT OF PRESSURE AND PRESSURE DERIVATIVE, THE SCHLUMBERGER ANALYST IDENTIFIES THE FLOW REGIMES GOVERNED BY THE INNER BOUNDARY CONDITIONS, BASIC RESERVOIR BEHAVIOR, AND OUTER BOUNDARY CONDITIONS. A RESERVOIR MODEL IS THEN CONSTRUCTED AND THE TEST DATA ARE MATCHED TO IT. IN ORDER TO VERIFY THE QUALITY OF THE MATCH, THE THEORETICAL MODEL RESPONSE (TYPE CURVE) AND THE TEST DATA ARE PLOTTED TOGETHER. THE PRESENTATION OF THE MATCH CAN BE SHOWN IN ANY OF THREE DIFFERENT FORMS.

- 1) LOG-LOG PLOT (DELTA PRESSURE AND DERIVATIVE vs. DELTA TIME)
- 2) SEMI-LOG PLOT (PRESSURE vs. SUPERPOSITION TIME)
- 3) CARTESIAN PLOT (PRESSURE vs. TIME)

SCHLUMBERGER USES SUPERPOSITION TECHNIQUES (MULTI-RATE ANALYSIS) TO ACCOUNT FOR THE WELL'S PRIOR PRODUCTION HISTORY. ESPECIALLY IN CASES WHERE THE PRIOR PRODUCTION IS ERRATIC OR UNUSUAL, SUPERPOSITION IS THE ONLY MEANS OF PROVIDING AN ACCURATE TYPE CURVE MATCH OF THE WELL TEST DATA. FOR GAS WELLS, THE PSEUDO-PRESSURE TECHNIQUE IS USED TO ACCOUNT FOR THE CHANGE IN GAS PROPERTIES WITH CHANGING PRESSURE.

IN SOME INSTANCES, THE WELL TEST DATA WILL NOT BE UNIQUE, i.e., MORE THAN ONE RESERVOIR MODEL WILL MATCH THE TEST DATA. THE MOST APPROPRIATE MODEL CAN BE DETERMINED AS WE WORK WITH YOU AND DISCUSS THE AREA LITHOLOGY AND GEOLOGY.

THE RESERVOIR ANSWERS DERIVED FROM MODEL-VERIFIED (tm) INTERPRETATION CAN INCLUDE: EFFECTIVE PERMEABILITY (K), SKIN DAMAGE (s), RESERVOIR PRESSURE (P*), FRACTURE HALF-LENGTH (Xf), FRACTURE CAPACITY (Kfw), BOUNDARY CONDITIONS AND DISTANCE TO BOUNDARIES, AS WELL AS THE MODEL OF BASIC RESERVOIR BEHAVIOR.

USING THE RESERVOIR MODEL DETERMINED BY MODEL-VERIFIED (tm) INTERPRETATION, FLOWRATE PREDICTIONS CAN BE MADE FOR THE WELL. ADDITIONALLY, WE CAN HELP YOU OPTIMIZE WELL PERFORMANCE BY USING SCHLUMBERGER'S NODAL ANALYSIS SOFTWARE TO EXAMINE THE WELL'S SENSITIVITY TO DIFFERENT COMPLETION DESIGNS (e.g., FRACTURE HALF-LENGTH, TUBING SIZE, WELLHEAD PRESSURE, SKIN VALUE, SHOT DENSITY). THIS AFFORDS YOU THE OPPORTUNITY TO FORECAST PRODUCTION POTENTIAL FOR THE WELL BEFORE MAKING FINAL COMPLETION/RECOMPLETION DECISIONS.

WELL TEST MODELS

Schlumberger

THE SCHLUMBERGER ANALYST CONSTRUCTS THE TOTAL SYSTEM RESERVOIR MODEL THAT BEST MATCHES YOUR TEST DATA BY CHOOSING THE INNER BOUNDARY CONDITION(S), A BASIC RESERVOIR MODEL, AND THE OUTER BOUNDARY CONDITION(S). THESE COMPONENTS ARE PUT TOGETHER INTO ONE RESERVOIR MODEL AND THE TEST DATA IS MATCHED BY ADJUSTING THE MODEL PARAMETERS (e.g., PERMEABILITY AND SKIN) TO OBTAIN THE BEST FIT. THE FOLLOWING IS A PARTIAL LIST OF THE MODEL COMPONENTS AVAILABLE TO THE SCHLUMBERGER ANALYST FOR MATCHING YOUR WELL TEST DATA.

INNER BOUNDARY CONDITION

- NO WELLBORE STORAGE
- CONSTANT WELLBORE STORAGE
- VARIABLE WELLBORE STORAGE
- FINITE CONDUCTIVITY VERTICAL FRACTURE
- INFINITE CONDUCTIVITY VERTICAL FRACTURE
- UNIFORM FLUX VERTICAL FRACTURE
- HORIZONTAL FRACTURE
- PARTIAL PENETRATION

BASIC RESERVOIR MODEL

- HOMOGENEOUS
- DUAL POROSITY, PSEUDO STEADY STATE INTERPOROSITY FLOW
- DUAL POROSITY, TRANSIENT INTERPOROSITY FLOW
- TRIPLE POROSITY
- DUAL PERMEABILITY
- RADIAL COMPOSITE

OUTER BOUNDARY CONDITION

- INFINITE SYSTEM
- SINGLE SEALING NO FLOW BOUNDARY
- PARTIALLY SEALING BOUNDARY
- SINGLE CONSTANT PRESSURE BOUNDARY
- TWO INTERSECTING NO FLOW BOUNDARIES (WEDGE GEOMETRY)
- PARALLEL NO FLOW BOUNDARIES (CHANNEL)
- GAS CAP/BOTTOM WATER DRIVE
- CLOSED (NO FLOW) CIRCLE
- CONSTANT PRESSURE CIRCLE
- CLOSED (NO FLOW) RECTANGLE
- CONSTANT PRESSURE RECTANGLE
- MIXED BOUNDARY RECTANGLE

FOR SOME APPLICATIONS, SUCH AS HORIZONTAL AND LAYERED RESERVOIR TESTS, ALL OF THE POSSIBLE COMBINATIONS ARE NOT AVAILABLE. REFERENCES ON MOST MODEL COMPONENTS CAN BE FOUND IN SPE PAPERS.

REPORT NO.
125021

PAGE NO. 9

SEQUENCE OF EVENTS

Schlumberger

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
04-JUL	13:57	SET PACKER	-4	2107	
	14:01	START FLOW 1" BLOW 1/8 CHOKE	0	98	
	14:06	BOTTOM OF BUCKET	5		
	14:11	13" BLOW IN BUCKET	10		
	14:16	14" BLOW IN BUCKET	15		
	14:16	END FLOW & START SHUTIN	15	372	
	15:16	END SHUTIN	75	1781	
	15:19	START FLOW 1" BLOW	78	392	
	15:29	9" BLOW IN BUCKET	88		
	15:39	7" BLOW IN BUCKET	98		
	15:49	7.5" BLOW IN BUCKET	108		
	15:59	6" BLOW IN BUCKET	118		
	16:09	5" BLOW IN BUCKET	128		
	16:19	6.5" BLOW IN BUCKET	138		
	16:19	END FLOW & START SHUTIN	138	518	
	18:19	END SHUTIN	258	1524	
	18:20	PULLED PACKERS LOOSE	259	2196	

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 125021

COMPANY : G & E RESOURCES

INSTRUMENT NO. 1319

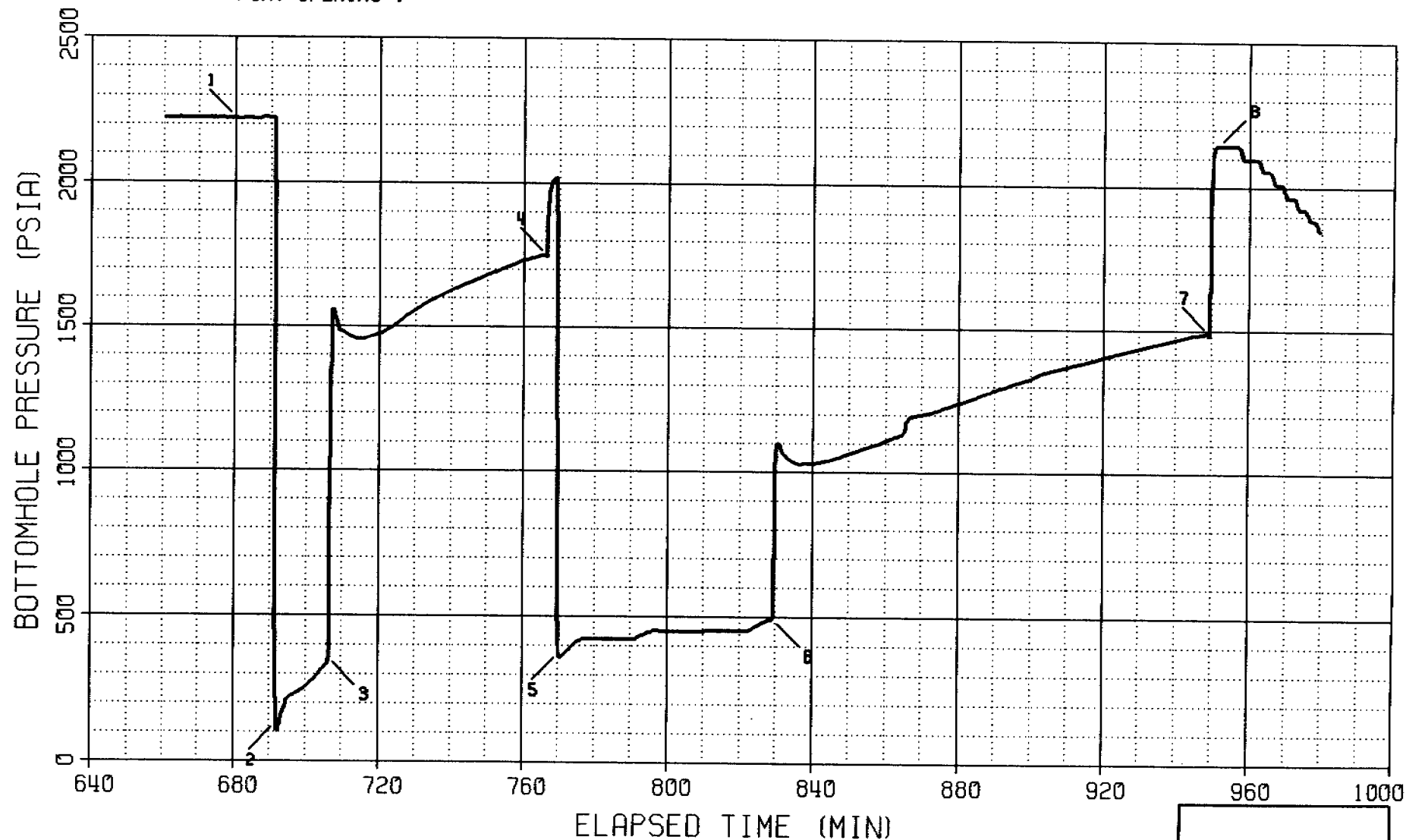
WELL : #7-24B

DEPTH : 4633 FT

CAPACITY : 20000 PSI

ELECTRONIC GAUGE PRESSURE DATA

PORT OPENING :



Schlumberger

BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 125021

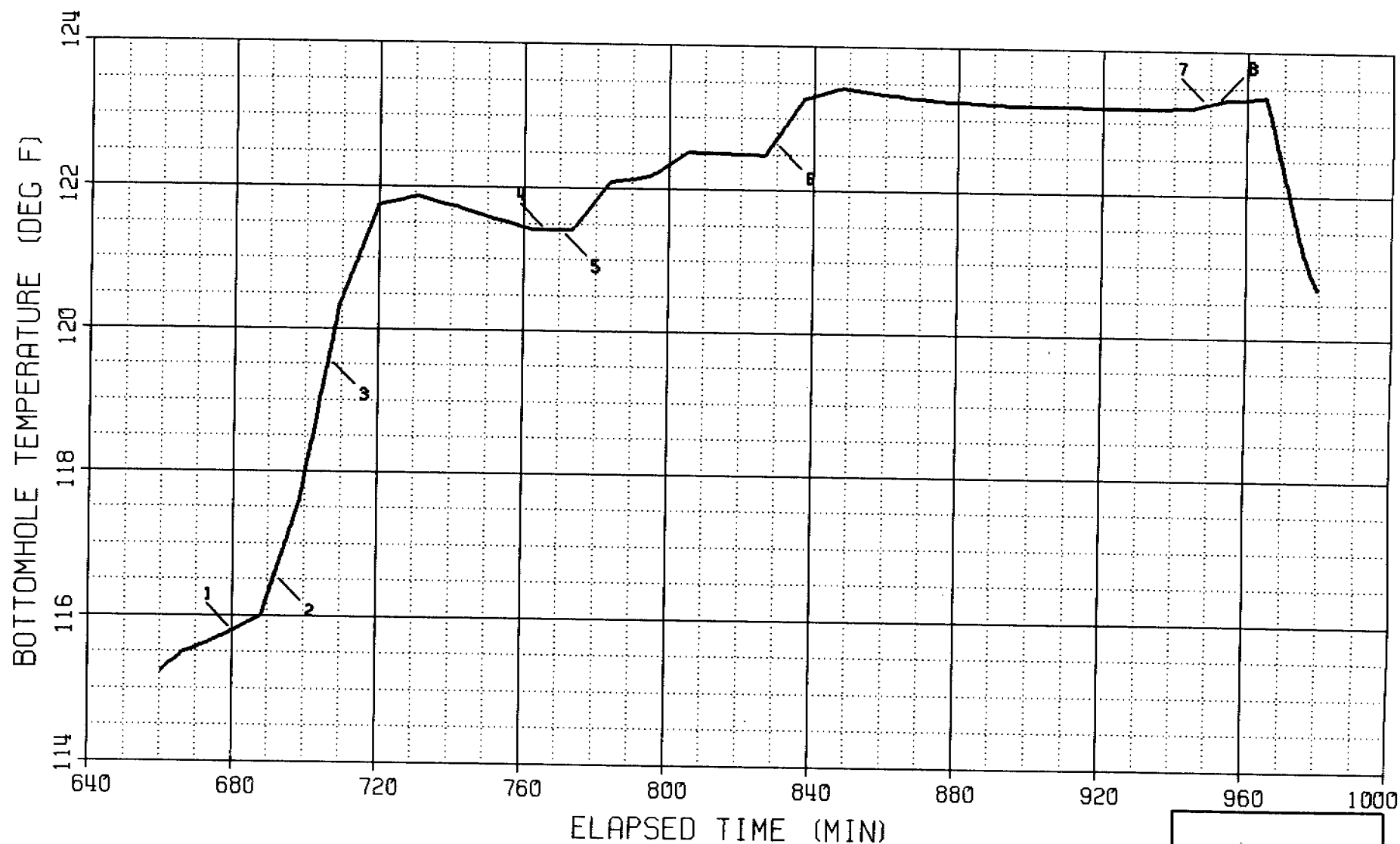
COMPANY : G & E RESOURCES

INSTRUMENT NO. 1319

WELL : #7-24B

DEPTH : 4633 FT

ELECTRONIC GAUGE TEMPERATURE DATA



Schlumberger

LOG LOG PLOT

COMPANY : G & E RESOURCES

WELL : #7-24B

FIELD REPORT NO. 125021

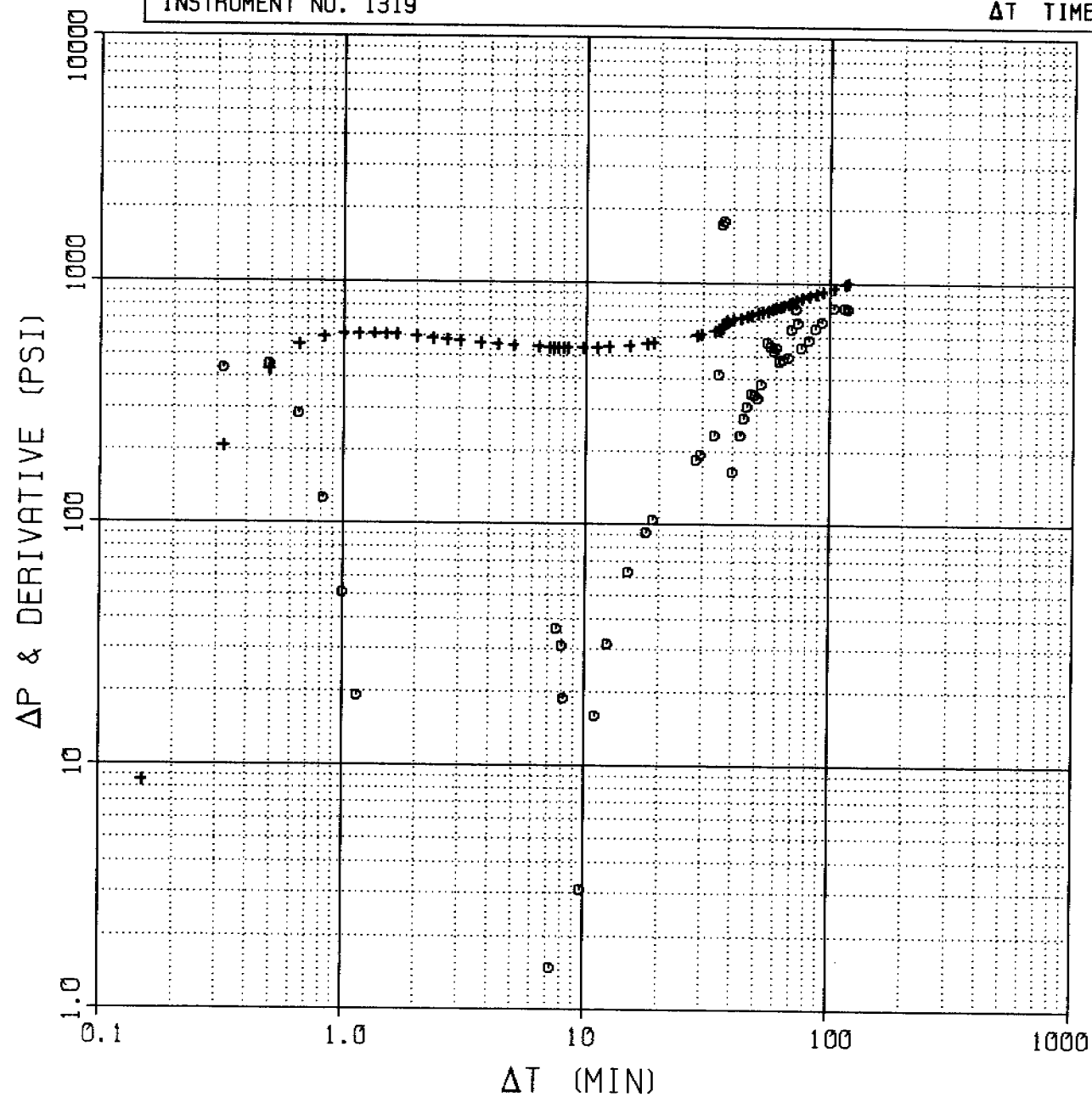
INSTRUMENT NO. 1319

SHUTIN #2 : PRODUCING TIME (T_p): 73.5 MIN

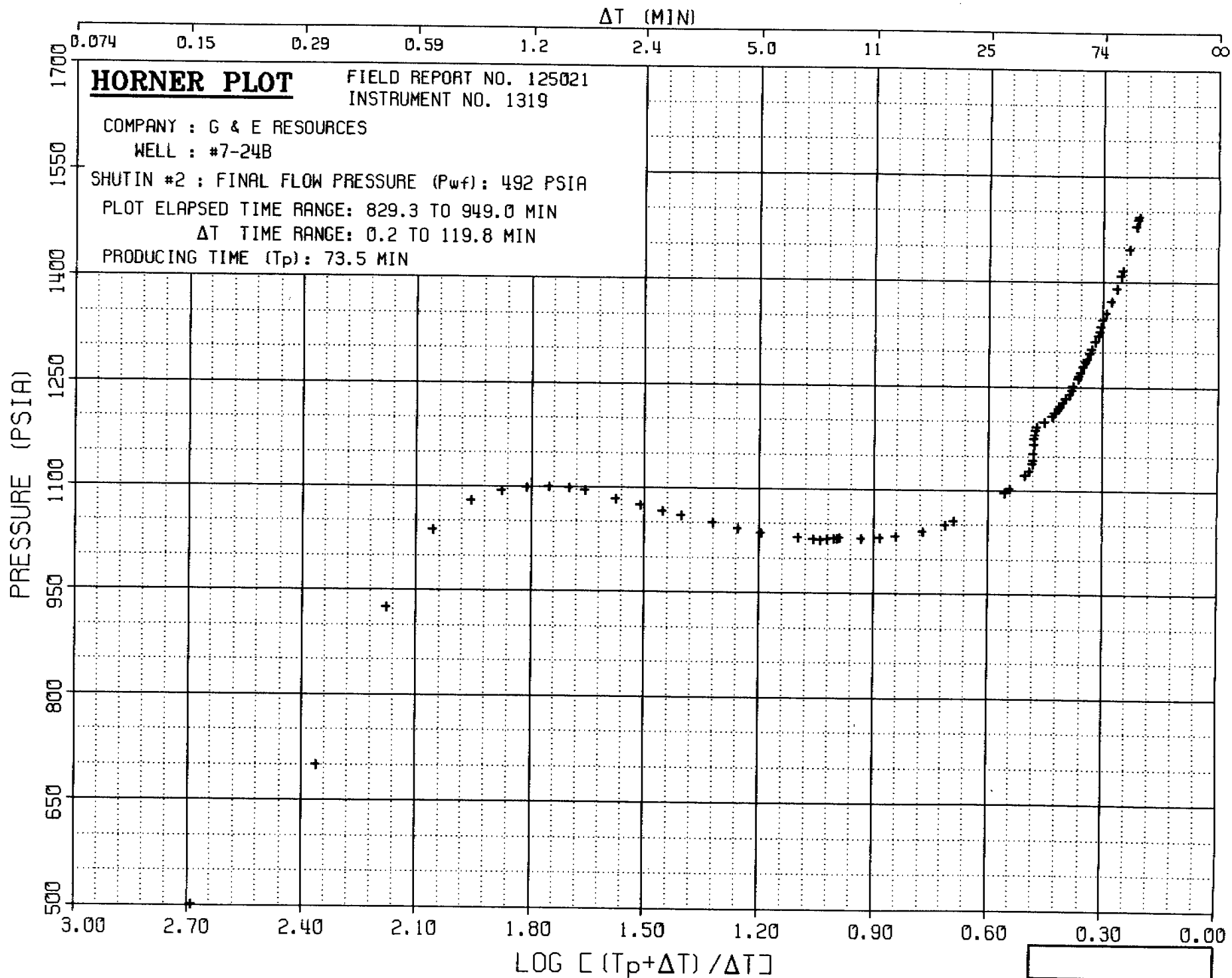
FINAL FLOW PRESSURE (P_{wf}): 492 PSIA

PLOT ELAPSED TIME RANGE: 829.3 TO 949.0 MIN

ΔT TIME RANGE: 0.2 TO 119.8 MIN



Schlumberger



LOG LOG PLOT

COMPANY : G & E RESOURCES

WELL : #7-24B

FIELD REPORT NO. 125021

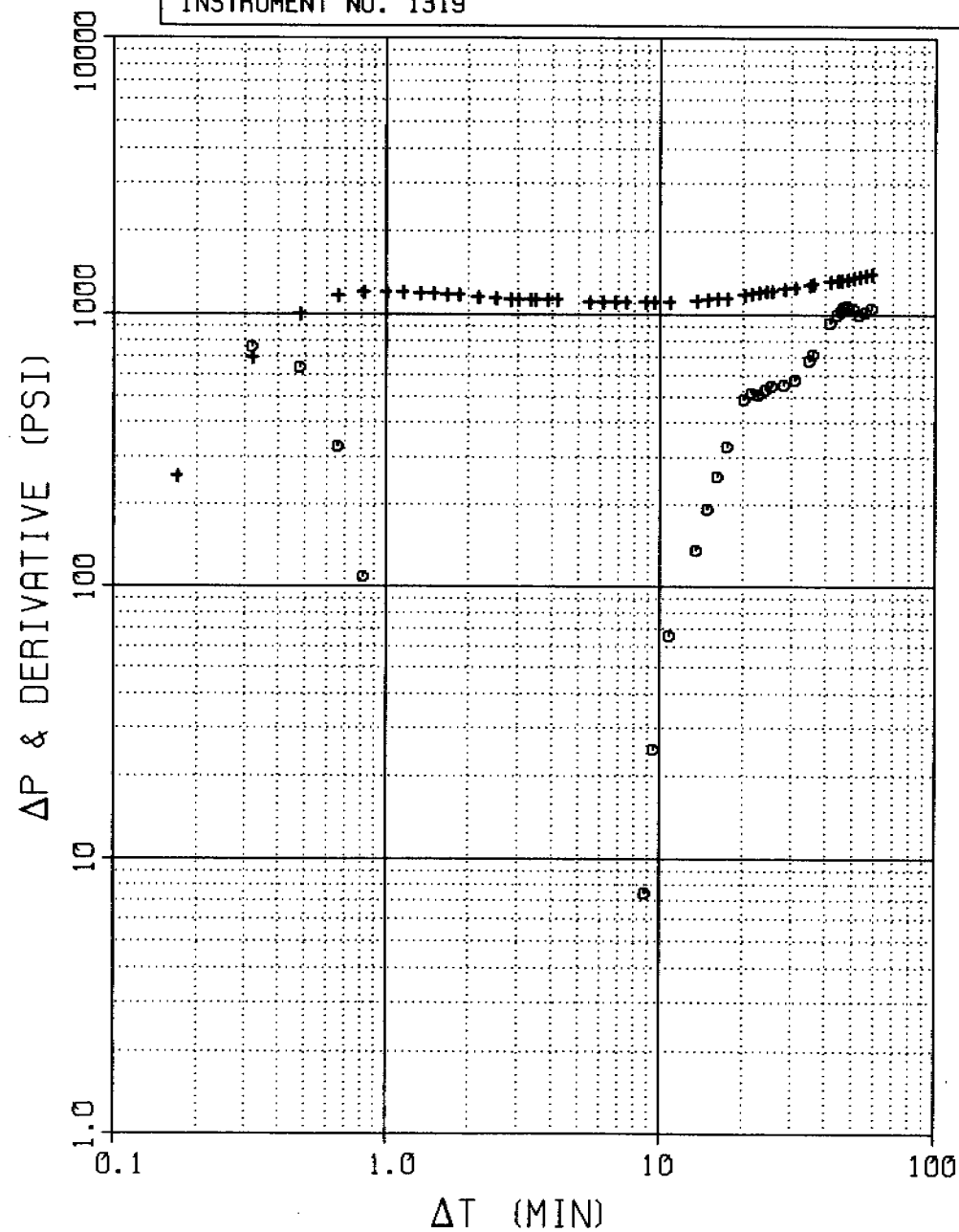
INSTRUMENT NO. 1319

SHUTIN #1 : PRODUCING TIME (T_p): 14.5 MIN

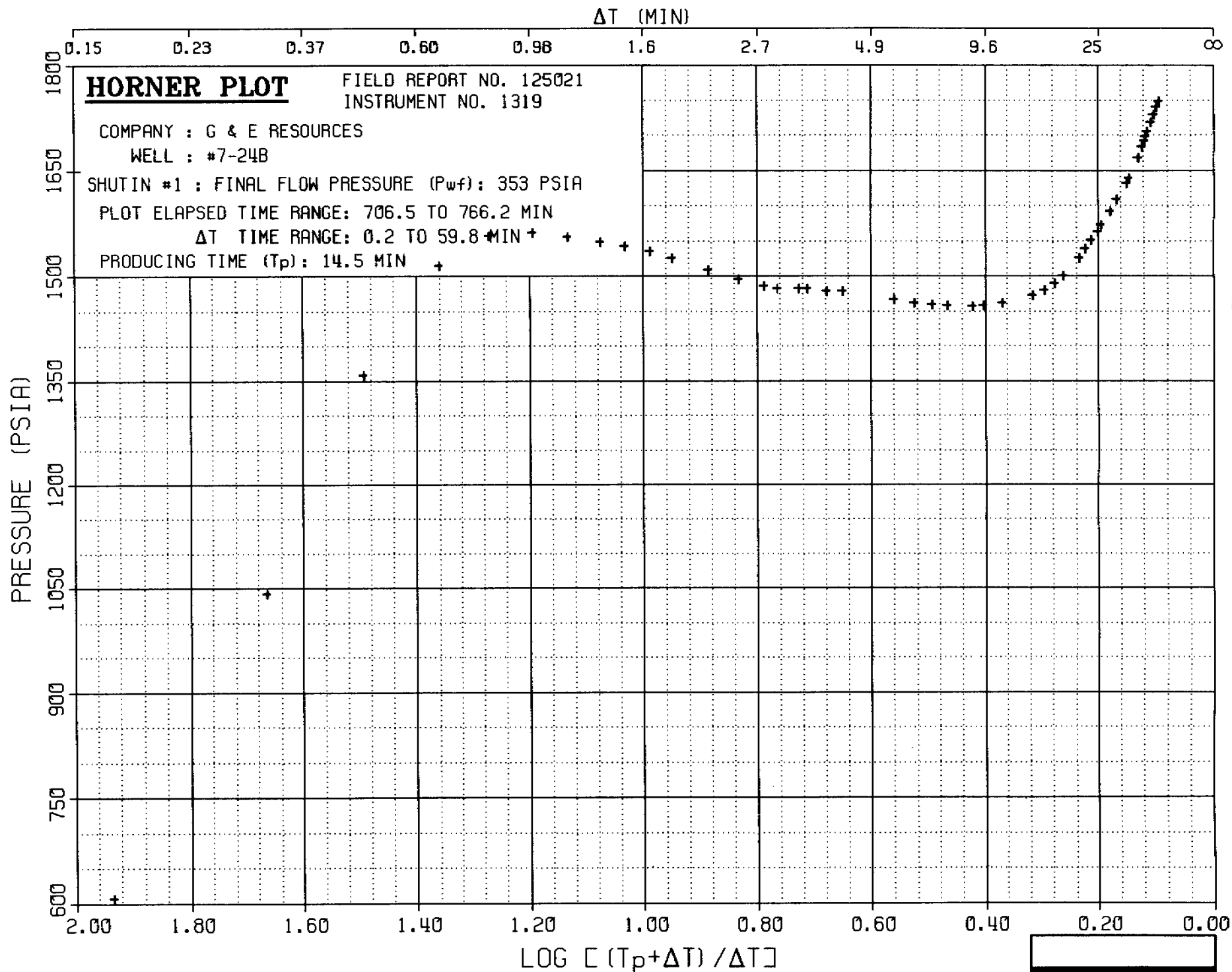
FINAL FLOW PRESSURE (P_{wf}): 353 PSIA

PLOT ELAPSED TIME RANGE: 706.5 TO 766.2 MIN

ΔT TIME RANGE: 0.2 TO 59.8 MIN



Schlumberger



 ** WELL TEST DATA PRINTOUT **

COMPANY: G & E RESOURCES
 WELL: #7-24B

FIELD REPORT NO. 125021
 INSTRUMENT NO. 1319

RECORDER CAPACITY: 20000 PSI PORT OPENING: DEPTH: 4633 FT

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MMM	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA	BOT HOLE TEMP. DEG F
1	13:48:40	4-JUL	HYDROSTATIC MUD	680.01	2224.45	115.79
2	14:00:30	4-JUL	START FLOW	691.85	126.34	116.57
3	14:15:00	4-JUL	END FLOW & START SHUT-IN	706.35	353.42	119.58
4	15:14:50	4-JUL	END SHUT-IN	766.18	1752.68	121.41
5	15:18:49	4-JUL	START FLOW	770.17	371.10	121.41
6	16:17:50	4-JUL	END FLOW & START SHUT-IN	829.18	491.96	122.67
7	18:17:39	4-JUL	END SHUT-IN	949.00	1491.81	123.27
8	18:20:10	4-JUL	HYDROSTATIC MUD	951.51	2145.00	123.29

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	INITIAL PRESSURE PSIA
1	691.85	706.35	14.50	126.34	353.42	126.34
2	770.17	829.18	59.01	371.10	491.96	371.10

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	706.35	766.18	59.83	353.42	1752.68	353.42	14.50
2	829.18	949.00	119.82	491.96	1491.81	491.96	73.51

TEST PHASE: FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
14:00:30	4-JUL	691.85	0.00	116.57	126.34
14:15:00	4-JUL	706.35	14.50	119.58	353.42

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 353.42 PSIA
PRODUCING TIME = 14.50 MIN

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORN TIME
HH:MM:SS	DD-MMM						
14:15:00	4-JUL	706.35	0.00	119.58	353.42	0.00	
14:16:09	4-JUL	707.50	1.15	119.87	1555.26	1201.84	1.1338
14:17:10	4-JUL	708.51	2.16	120.14	1508.78	1155.36	0.8872
14:18:20	4-JUL	709.68	3.33	120.40	1482.11	1128.69	0.7287
14:20:30	4-JUL	711.85	5.50	120.68	1466.40	1112.98	0.5607
14:21:50	4-JUL	713.18	6.83	120.86	1459.45	1106.03	0.4946
14:23:49	4-JUL	715.17	8.82	121.11	1457.42	1104.00	0.4223
14:25:49	4-JUL	717.17	10.82	121.37	1461.56	1108.14	0.3692
14:28:29	4-JUL	719.84	13.49	121.72	1473.13	1119.71	0.3170
14:31:09	4-JUL	722.50	16.15	121.78	1489.68	1136.26	0.2783
14:35:10	4-JUL	726.51	20.16	121.82	1525.31	1171.89	0.2353
14:37:49	4-JUL	729.17	22.82	121.85	1551.11	1197.69	0.2136
14:40:29	4-JUL	731.83	25.48	121.85	1572.62	1219.20	0.1956
14:43:09	4-JUL	734.50	28.15	121.82	1591.77	1238.35	0.1804
14:45:50	4-JUL	737.18	30.83	121.78	1608.36	1254.94	0.1674
14:51:10	4-JUL	742.51	36.16	121.71	1638.62	1285.20	0.1464
14:56:29	4-JUL	747.84	41.49	121.63	1667.78	1314.36	0.1302
15:01:49	4-JUL	753.17	46.82	121.55	1697.86	1344.44	0.1172
15:08:29	4-JUL	759.83	53.48	121.45	1729.56	1376.14	0.1042
15:13:49	4-JUL	765.17	58.82	121.41	1749.26	1395.84	0.0957
15:14:50	4-JUL	766.18	59.83	121.41	1752.68	1399.26	0.0942

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
15:18:49	4-JUL	770.17	0.00	121.41	371.10
15:34:59	4-JUL	786.34	16.17	122.11	421.87
15:54:00	4-JUL	805.35	35.18	122.52	450.36
16:09:50	4-JUL	821.18	51.01	122.49	452.24
16:17:50	4-JUL	829.18	59.01	122.67	491.96

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 491.96 PSIA
PRODUCING TIME = 73.51 MIN

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORN TIME
HH:MM:SS	DD-MMM						
16:17:50	4-JUL	829.18	0.00	122.67	491.96	0.00	
16:18:59	4-JUL	830.33	1.15	122.75	1098.94	606.98	1.8124
16:20:10	4-JUL	831.51	2.33	122.84	1074.20	582.24	1.5125
16:21:29	4-JUL	832.84	3.66	122.94	1050.31	558.35	1.3240

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 491.96 PSIA

PRODUCING TIME = 73.51 MIN

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MMM						
16:22:50	4-JUL	834.18	5.00	123.04	1036.27	544.31	1.1960
16:24:09	4-JUL	835.50	6.32	123.14	1029.95	537.99	1.1014
16:25:10	4-JUL	836.51	7.33	123.21	1026.19	534.23	1.0425
16:26:10	4-JUL	837.51	8.33	123.28	1029.83	537.87	0.9923
16:27:29	4-JUL	838.83	9.65	123.30	1028.74	536.78	0.9354
16:28:49	4-JUL	840.17	10.99	123.32	1029.78	537.82	0.8859
16:32:49	4-JUL	844.17	14.99	123.37	1039.83	547.87	0.7711
16:35:29	4-JUL	846.83	17.65	123.41	1049.84	557.88	0.7131
16:46:10	4-JUL	857.51	28.33	123.36	1096.75	604.79	0.5557
16:51:29	4-JUL	862.84	33.66	123.33	1121.72	629.76	0.5030
16:58:01	4-JUL	869.36	40.18	123.29	1198.72	706.76	0.4517
17:03:29	4-JUL	874.84	45.66	123.27	1217.79	725.83	0.4166
17:08:40	4-JUL	880.02	50.84	123.25	1239.15	747.19	0.3884
17:14:10	4-JUL	885.51	56.33	123.24	1264.83	772.87	0.3627
17:19:10	4-JUL	890.51	61.33	123.23	1288.70	796.74	0.3421
17:24:59	4-JUL	896.34	67.16	123.22	1314.18	822.22	0.3211
17:30:01	4-JUL	901.36	72.18	123.21	1336.86	844.90	0.3050
17:39:40	4-JUL	911.01	81.83	123.21	1372.33	880.37	0.2784
17:44:59	4-JUL	916.34	87.16	123.20	1390.82	898.86	0.2656
17:50:20	4-JUL	921.68	92.50	123.20	1408.56	916.60	0.2540
18:02:00	4-JUL	933.35	104.17	123.20	1446.42	954.46	0.2319
18:12:41	4-JUL	944.03	114.85	123.21	1478.77	986.81	0.2149
18:17:39	4-JUL	949.00	119.82	123.27	1491.81	999.85	0.2078

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 125021

COMPANY : PG&E RESOURCES

INSTRUMENT NO. J-1117

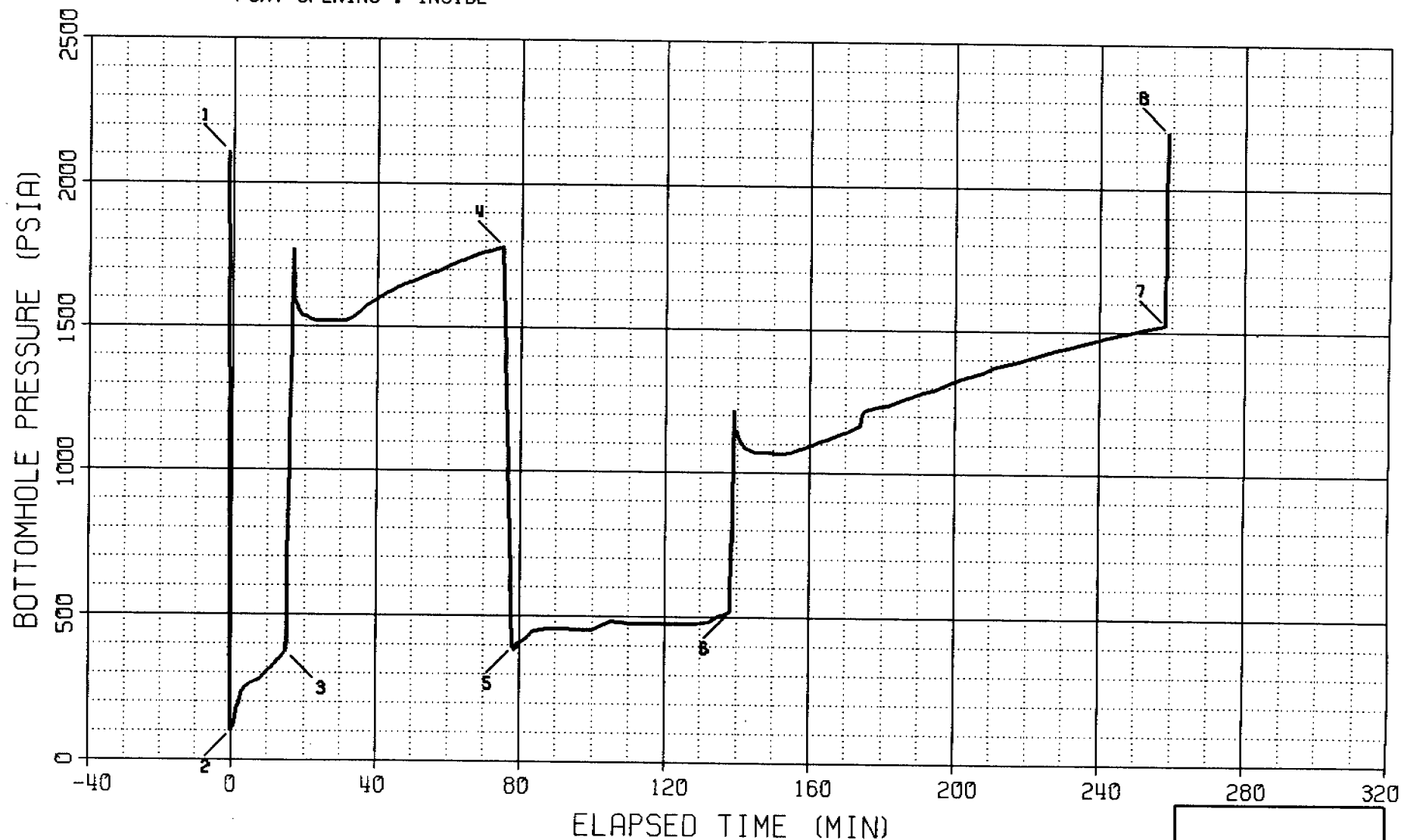
WELL : #7-24B

DEPTH : 4639 FT

CAPACITY : 4700 PSI

MECHANICAL GAUGE PRESSURE DATA

PORT OPENING : INSIDE



Schlumberger

LOG LOG PLOT

COMPANY : PG&E RESOURCES

WELL : #7-24B

FIELD REPORT NO. 125021

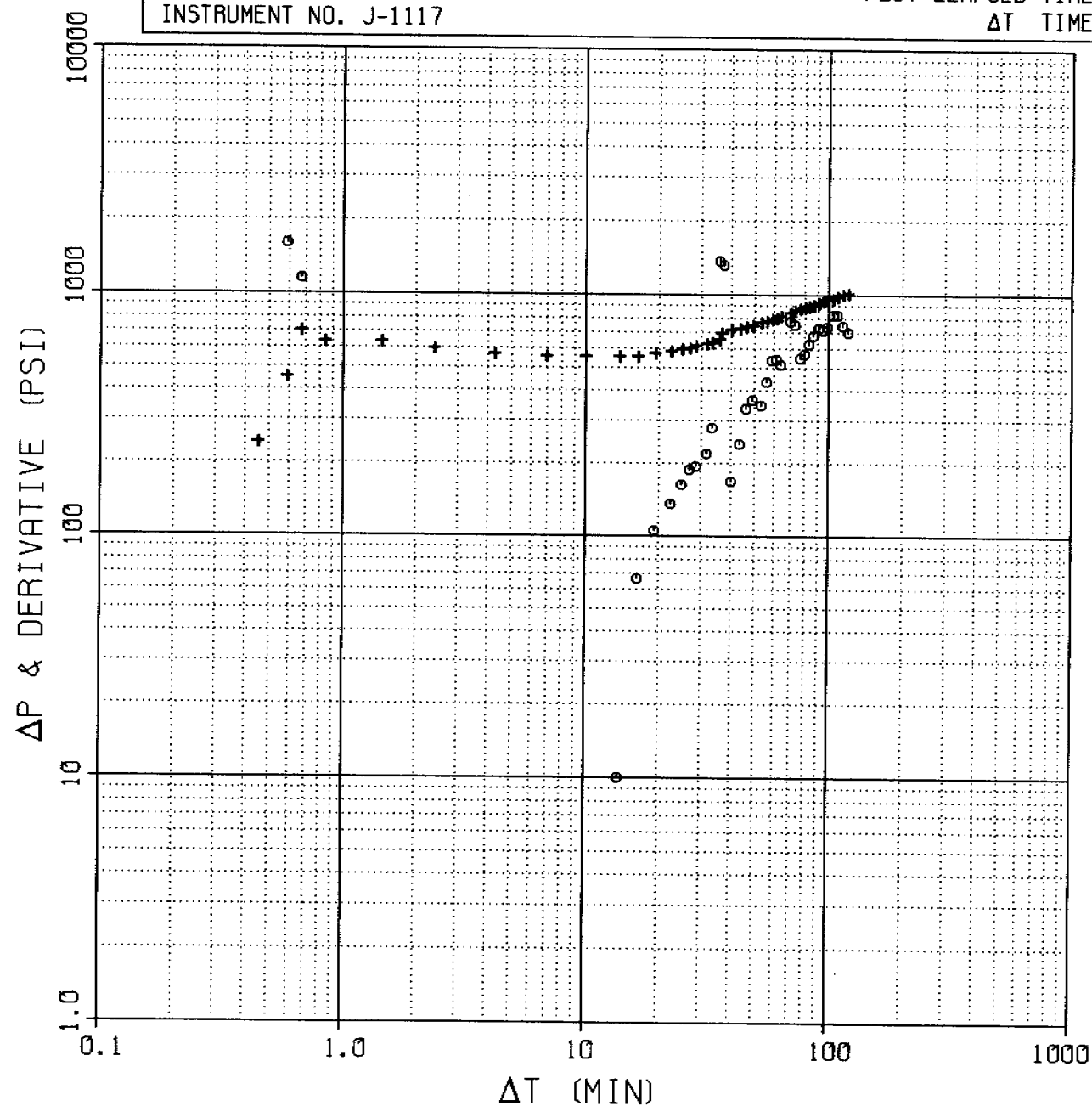
INSTRUMENT NO. J-1117

SHUTIN #2 : PRODUCING TIME (T_p) : 75.2 MIN

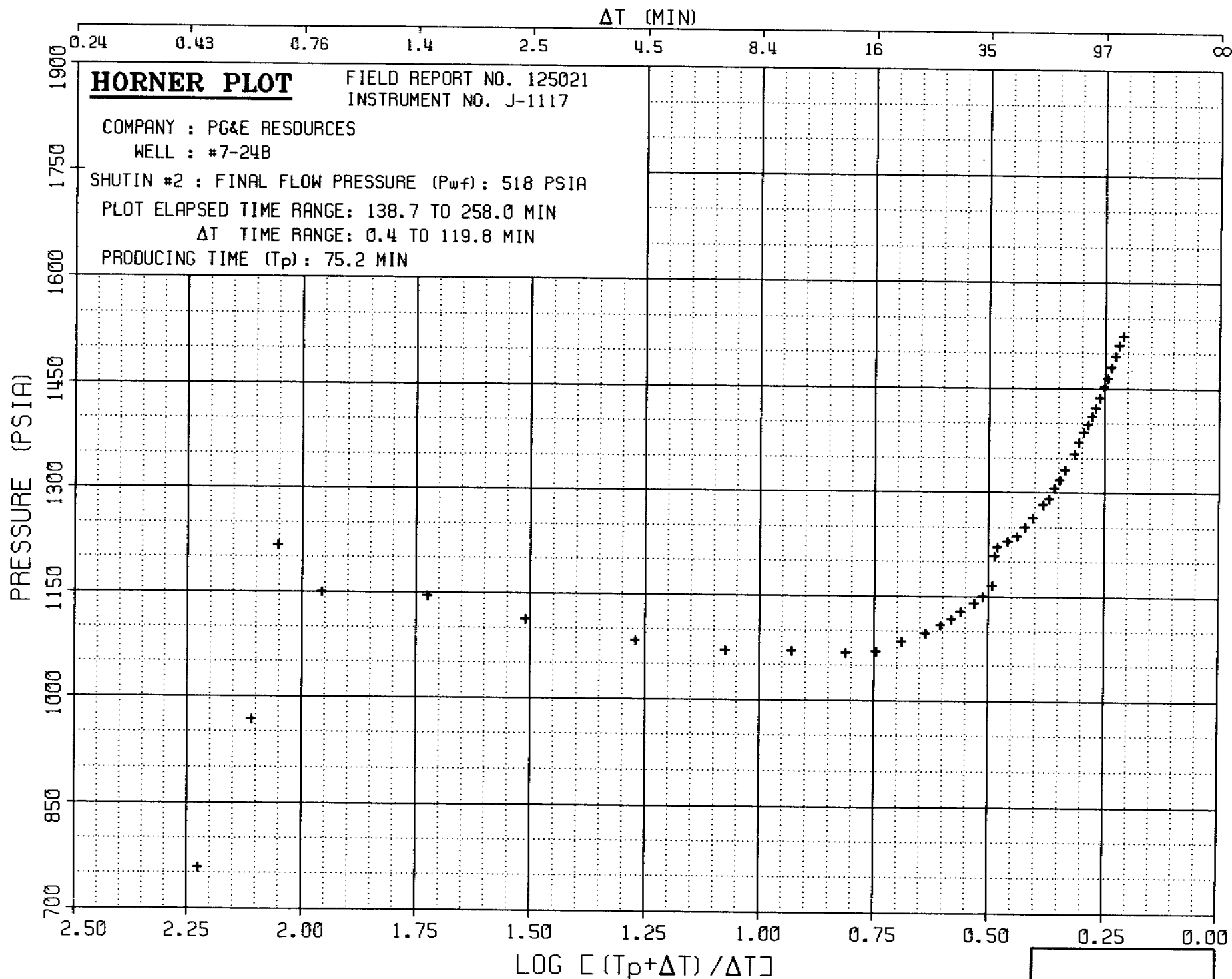
FINAL FLOW PRESSURE (P_{wf}) : 518 PSIA

PLOT ELAPSED TIME RANGE: 138.7 TO 258.0 MIN

ΔT TIME RANGE: 0.4 TO 119.8 MIN



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LOG LOG PLOT

COMPANY : PG&E RESOURCES

WELL : #7-24B

FIELD REPORT NO. 125021

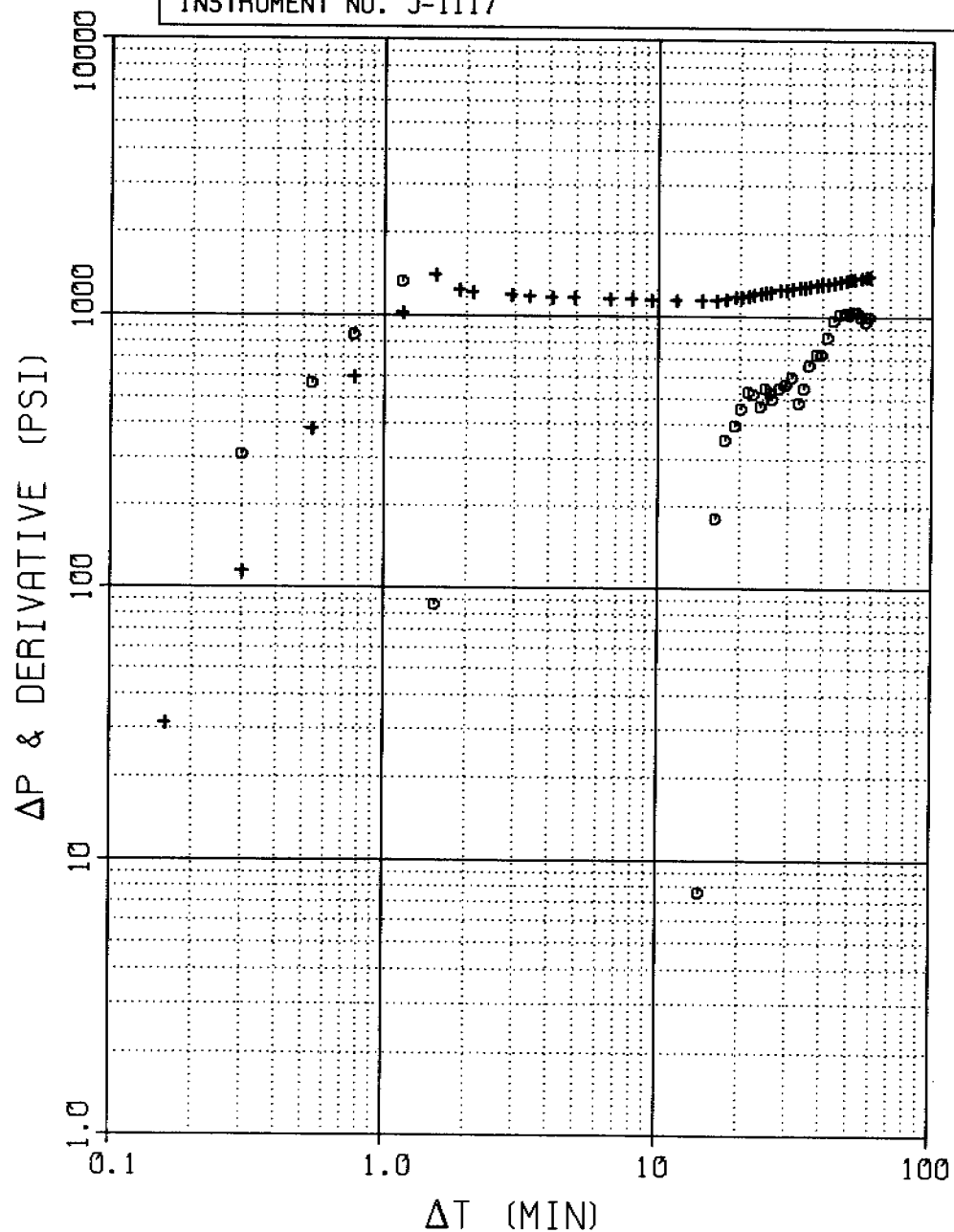
INSTRUMENT NO. J-1117

SHUTIN #1 : PRODUCING TIME (T_p): 15.0 MIN

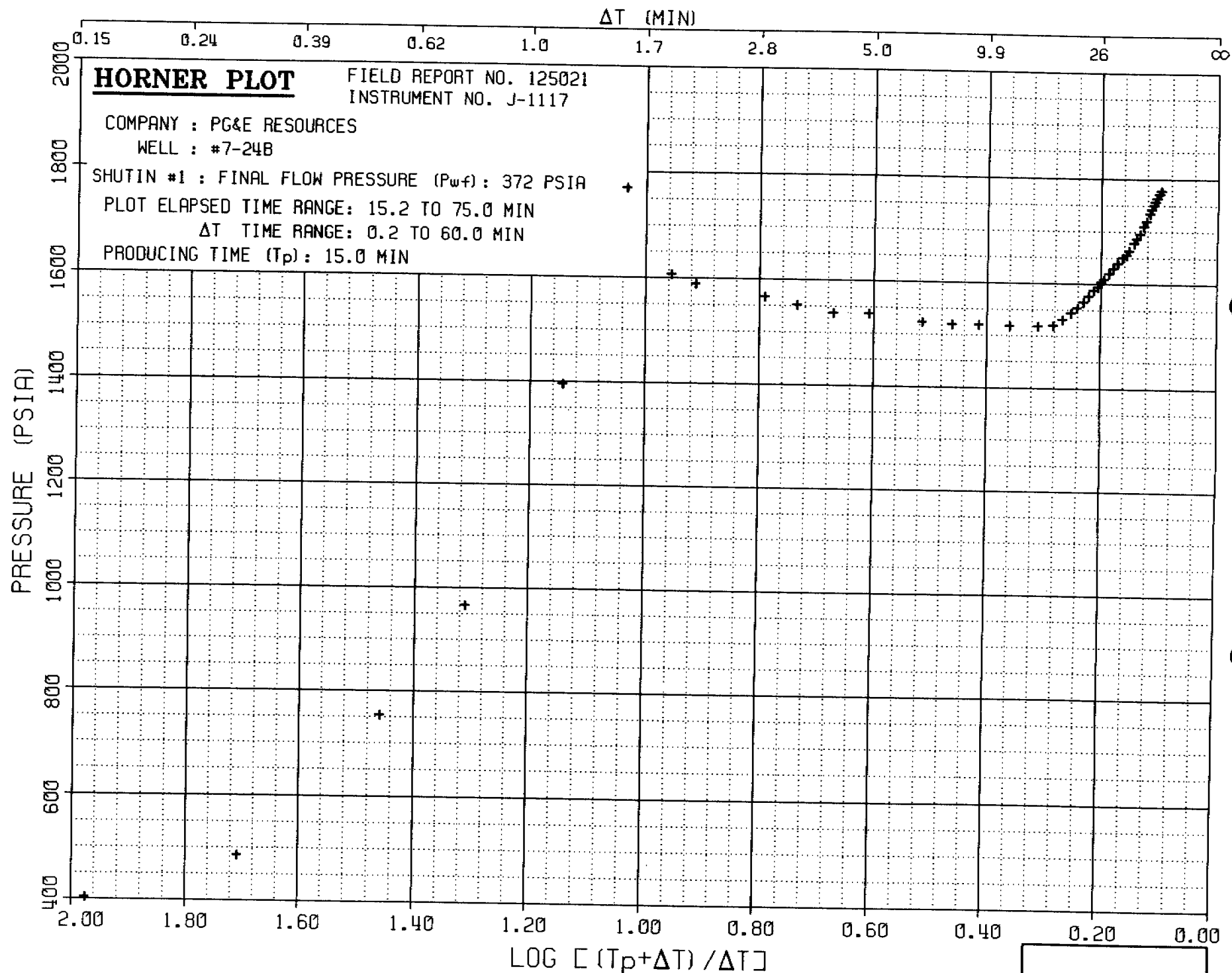
FINAL FLOW PRESSURE (P_{wf}): 372 PSIA

PLOT ELAPSED TIME RANGE: 15.2 TO 75.0 MIN

ΔT TIME RANGE: 0.2 TO 60.0 MIN



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 ** WELL TEST DATA PRINTOUT **

COMPANY: PG&E RESOURCES
 WELL: #7-24B

FIELD REPORT NO. 125021
 INSTRUMENT NO. J-1117

RECORDER CAPACITY: 4700 PSI PORT OPENING: INSIDE DEPTH: 4639 FT
 TEMPERATURE: 130 DEG F

LABEL POINT INFORMATION

	TIME OF DAY	DATE		ELAPSED	BOT HOLE PRESSURE
#	HH:MM:SS	DD-MMM	EXPLANATION	TIME, MIN	PSIA
1	13:59:40	4-APR	HYDROSTATIC MUD	-1.33	2107
2	14:01:00	4-APR	START FLOW	0.00	98
3	14:16:00	4-APR	END FLOW & START SHUT-IN	15.00	372
4	15:16:02	4-APR	END SHUT-IN	75.03	1781
5	15:19:02	4-APR	START FLOW	78.04	392
6	16:19:13	4-APR	END FLOW & START SHUT-IN	138.22	518
7	18:19:02	4-APR	END SHUT-IN	258.04	1524
8	18:19:40	4-APR	HYDROSTATIC MUD	258.66	2196

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	INITIAL PRESSURE PSIA
1	0.00	15.00	15.00	98	372	98
2	78.04	138.22	60.18	392	518	392

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	15.00	75.03	60.03	372	1781	372	15.00
2	138.22	258.04	119.82	518	1524	518	75.18

TEST PHASE: FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM			
14:01:00	4-APR	0.00	0.00	98
14:16:00	4-APR	15.00	15.00	372

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 372 PSIA

PRODUCING TIME = 15.00 MIN

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORN TIME
HH:MM:SS	DD-MMM					
14:16:00	4-APR	15.00	0.00	372	0	
14:17:10	4-APR	16.16	1.16	1394	1022	1.1440
14:18:54	4-APR	17.90	2.90	1567	1195	0.7905
14:20:04	4-APR	19.07	4.07	1538	1166	0.6708
14:22:35	4-APR	21.58	6.58	1523	1151	0.5158
14:23:55	4-APR	22.92	7.92	1520	1148	0.4615
14:25:22	4-APR	24.37	9.37	1519	1148	0.4151
14:27:38	4-APR	26.64	11.64	1518	1146	0.3596
14:30:26	4-APR	29.44	14.44	1518	1146	0.3094
14:33:44	4-APR	32.73	17.73	1530	1159	0.2662
14:36:11	4-APR	35.19	20.19	1553	1181	0.2413
14:38:23	4-APR	37.38	22.38	1576	1204	0.2228
14:40:40	4-APR	39.67	24.67	1594	1222	0.2063
14:43:52	4-APR	42.86	27.86	1620	1248	0.1871
14:46:50	4-APR	45.83	30.83	1639	1267	0.1722
14:54:08	4-APR	53.13	38.13	1677	1305	0.1441
15:00:04	4-APR	59.07	44.07	1709	1337	0.1272
15:06:11	4-APR	65.18	50.18	1741	1369	0.1136
15:13:16	4-APR	72.26	57.26	1770	1398	0.1010
15:16:02	4-APR	75.03	60.03	1781	1409	0.0969

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM			
15:19:02	4-APR	78.04	0.00	392
15:36:28	4-APR	95.47	17.43	454
15:53:26	4-APR	112.43	34.39	474
16:09:01	4-APR	128.02	49.98	476
16:19:13	4-APR	138.22	60.18	518

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 518 PSIA

PRODUCING TIME = 75.18 MIN

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
16:19:13	4-APR	138.22	0.00	518	0	
16:20:40	4-APR	139.66	1.44	1145	627	1.7260
16:23:28	4-APR	142.47	4.25	1083	565	1.2716
16:26:07	4-APR	145.12	6.90	1069	552	1.0754
16:29:15	4-APR	148.25	10.03	1069	552	0.9292
16:32:55	4-APR	151.91	13.69	1067	550	0.8124
16:35:38	4-APR	154.64	16.42	1070	553	0.7465
16:38:29	4-APR	157.49	19.27	1084	566	0.6903
16:41:39	4-APR	160.65	22.43	1096	579	0.6387
16:44:01	4-APR	163.02	24.80	1108	591	0.6055
16:47:44	4-APR	166.73	28.51	1127	610	0.5607
16:50:37	4-APR	169.62	31.40	1140	622	0.5307
16:56:21	4-APR	175.35	37.13	1221	703	0.4807
17:02:14	4-APR	181.24	43.02	1237	719	0.4389
17:07:59	4-APR	186.99	48.77	1263	745	0.4051
17:14:53	4-APR	193.88	55.66	1291	773	0.3712
17:20:13	4-APR	199.21	60.99	1318	801	0.3488
17:29:23	4-APR	208.39	70.17	1355	837	0.3163
17:36:08	4-APR	215.14	76.92	1387	869	0.2961
17:42:47	4-APR	221.79	83.57	1410	892	0.2787
17:50:07	4-APR	229.11	90.89	1436	918	0.2618
17:58:37	4-APR	237.62	99.40	1464	947	0.2446
18:07:50	4-APR	246.84	108.62	1495	977	0.2284
18:13:27	4-APR	252.45	114.23	1511	993	0.2196
18:19:02	4-APR	258.04	119.82	1524	1006	0.2115

RECEIVED

JUL 02 1993

REPORT OF WATER ENCOUNTERED DURING DRILLING - FORM 7

DIVISION OF
OIL, GAS & MINING

1. Well name and number: Federal 7-24B
API number: 43-47-32227
2. Well location: QQ SW/NE section 24 township 9S range 19E county Uintah
3. Well operator: PG&E Resources Company
Address: 6688 N. Central Expwy., Suite 1000 phone: (214) 750-3800
Dallas, TX 75206
4. Drilling contractor: Leon Ross Air Drilling
Address: Roosevelt, UT phone: (801) 722-4468

5. Water encountered (continue on reverse side if necessary)

Depth		Volume (flow rate or head)	Quality (fresh or salty)
from	to		
135'	136-7'	Estimate 5-10 gals per minute when pumping air.	Fresh
		Will not flow with air off.	
		Possibly overnight water will still be 100' from top.	

6. Formation tops: _____

If an analysis has been made of the water encountered, please attach a copy of the report to this form. No Sample.

I certify that this report is true and complete to the best of my knowledge.

Name Cindy Keister
Title Regulatory Analyst

Signature Cindy Keister
Date 06/29/93

Comments:

RECEIVED

JUL 01 1993

REPORT OF WATER ENCOUNTERED DURING DRILLING - FORM 7

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If an analysis has been made of the water encountered, please attach a copy of the report to this form. No Sample.

I certify that this report is true and complete to the best of my knowledge

Name Cindy Keister
Title Regulatory Analyst

Signature Cindy Keister
Date 06/29/93

Comments:



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 2, 1993

Ava Hurst
PG&E Resources Company
6688 North Central Expressway #1000
Dallas, Texas 75206-3922

Dear Ms. Hurst:

Re: Request for Completed Entity Action Form - Federal 7-24B
SWNE Sec. 24, T. 9S, R. 19E - Uintah County, Utah

This is written to remind you that all well operators are responsible for sending an Entity Action Form to the Division of Oil, Gas and Mining within five working days of spudding a new well. This office was notified that your company spudded the Federal 7-24B, API Number 43-047-32227, on June 25, 1993. At this time, we have not received an Entity Action Form for this well.

Please review the instructions on the back of the enclosed form. Make sure you choose the proper Action Code to show whether the well will be a single well with its own sales facilities (Code A), a well being added to an existing group of wells having the same tank battery and common division of royalty interest (Code B - show existing Entity Number to which well should be added), or a well being drilled in the participating area of a properly designated unit (Code B). Complete the form and return it to us by August 10, 1993.

Your attention to this matter is appreciated. If we can be of assistance to you, please feel free to call Lisha Cordova at the above number.

Sincerely,

Don Staley
Administrative Supervisor

Enclosure
cc: R. J. Firth
✓ File



August 10, 1993



State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attention: Mr. Don Staley

RE: Entity Action Form 6
Federal 13-24B
Federal 7-24B
Federal 15-24B
Uintah County, Utah

Gentlemen:

In reference to your letters of August 2, 1993, attached is a completed "Entity Action Form" for the referenced wells.

If you need further information or have any questions, please contact the undersigned at (214) 706-3640.

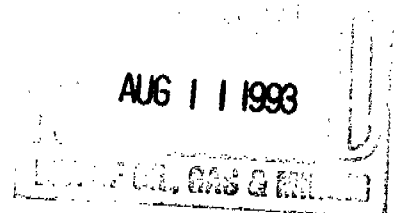
Very truly yours,

Cindy R. Keister
Sr. Regulatory Analyst

CRK/ck

Attachment

cc: Regulatory Files
Central Files



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR PG&E Resources Company
ADDRESS 6688 N. Central Expwy., Suite 1000
Dallas, TX 75206

OPERATOR ACCT. NO. N0595

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11507	43-047-32418	Federal 13-24B	SWSW	24	9S	19E	Uintah	6-16-93 06/11/93	06/11/93

WELL 1 COMMENTS: New Well

Entities added 8-12-93. Jec

	99999	11508	43-047-32227	Federal 7-24B	SWNE	24	9S	19E	Uintah	6-25-93 06/27/93	06/27/93
--	-------	-------	--------------	---------------	------	----	----	-----	--------	---------------------	----------

WELL 2 COMMENTS: Dry Hole / New Drill

A	99999	11509	43-047-32420	Federal 15-24B	SWSE	24	9S	19E	Uintah	7-7-93 07/06/93	07/06/93
---	-------	-------	--------------	----------------	------	----	----	-----	--------	--------------------	----------

WELL 3 COMMENTS: New Well

--	--	--	--	--	--	--	--	--	--	--	--

WELL 4 COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

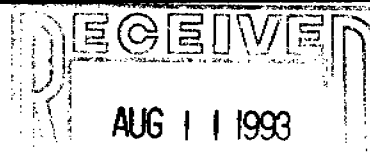
WELL 5 COMMENTS:

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)



Cindy Keister
Signature

Sr. Regulatory Analyst 08/09/93
Title Date

Phone No. 214) 750-3800

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Dry Hole

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FNL & 1977' FEL
SW/4 NE/4 Sec. 24-T9S-R19E

5. Lease Designation and Serial No.

U-68625

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Federal 7-24B

9. API Well No.

43-047-32227

10. Field and Pool, or Exploratory Area

Natural Buttes 630

11. County or Parish, State

Uintah County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Reclamation/Restoration
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log from.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PG&E Resources Company hereby requests an extension to the 30 day restoration & reclamation stipulation. PG&E does not want to restore the location at this time because we are currently evaluating future uses of the existing wellbore.

14. I hereby certify that the foregoing is true and correct

Signed

Title Sr. Regulatory Analyst

Date 08/10/1993

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 5 of 5

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

PRODUCTION DEPT
PG&E RESOURCES COMPANY
6688 N CENTRAL EXP #1000
DALLAS TX 75206-3922

UTAH ACCOUNT NUMBER: N0595REPORT PERIOD (MONTH/YEAR): 8 / 94AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓ FEDERAL 7-24B								
4304732227	11508	09S 19E 24				✓ UTH 68625	(w. willow creek U?)	
✓ FEDERAL 15-24B								
4304732420	11509	09S 19E 24	GRRV			✓ UTH 68625	(west willow creek Unit)	
✓ FEDERAL 5-24B								
4304732447	11585	09S 19E 24	GRRV			✓ UTH 68625	(west willow creek Unit)	
✓ Blue Diamond 13-13B								
4304732457	99999	9S 19E 13	BL.			✓ FEE	* 11-6-94 Bond Updated. (w. willow creek U?)	
✓ State 15-14B								
4304732450	99999	9S 19E 24	"			✓ ML 45243	(w. willow creek U)	
✓ Federal 7-19B								
4304732479	11632	9S 19E 19	"			✓ UTH 65218		
✓ Federal 2-19								
4304732477	99999	9S 19E 19	"			✓ U 65218		
✓ State 31-52								
4304732500	11645	8S 18E 32	GRRV			✓ ML 22058		
✓ Federal 41-29								
4304732495	11646	9S 18E 29	GRRV			✓ U 19267		
✓ Federal 13-20								
4301331445	99999	9S 17E 20	"			✓ U 13905	(Rec'd 10-21-94)	
✓ Federal 44-18								
4304732498	99999	9S 19E 18	"			✓ U 16544		
✓ Federal 22-84								
4301331457	11675	9S 17E 8	"			✓ U 10760	"	
✓ Federal 14-94								
4301331459	11677	9S 17E 9	"			✓ U 50750		
✓ Federal 21-94								
4301331458	11676	9S 17E 9	"			✓ U 50750		
✓ Federal 21-84								
4301331460	99999	9S 17E 8	"			✓ U 10760		
✓ State 42-32								
4304732473	99999	8S 18E 32	"			✓ ML 22058		
COMMENTS:								
✓ Federal 23-29								
4304732556	99999	9S 18E 29	"			✓ U-19267		
						TOTALS		

hereby certify that this report is true and complete to the best of my knowledge.

Date: _____

Name and Signature: _____

Telephone Number: _____

SUSPENSE

DTS

9/29/94

WELL: Federal 7-24B

OPERATOR: PG & E Resources

LOCATION: 24-95-19E (Uintah)

API: 43-047-32227

AS OF THIS DATE, NO WCR HAS BEEN RECEIVED FOR THIS WELL. IT HAS BEEN SPUDDED AND THE FILE HAS BEEN IN DRILLING FOR A LENGTHY TIME.

ON 7/28/94 THIS WELL WAS PUT IN TA STATUS IN 3270 DUE TO THE LENGTH OF TIME THE WELL HAS BEEN IN A DRILLING STATUS (SPUDDED ON 6/25/93) AND DUE TO ANY OF THE OTHER FOLLOWING REASONS:

RJF Review: "Change to TA Status."

(eff. 7/7/93)

Removed from
CONFIDENTIAL

CHECK IN LATE 9/94 (MONTH/YEAR) TO SEE IF OPERATOR REPORTED ON WELL ON TURNAROUND DOCUMENT. DEPENDING ON OPERATOR'S REACTION, WRITE LETTER TO OPERATOR REQUESTING WCR, ETC.

DTS

TODAY'S DATE 7/28/94

CC: WELL FILE

Retrograde

Record#	WELL_NAME	LEASE_TYPE	API_NUMBER	OPERATOR	SPUD_DATE	SECTION	TOWNSHIP	RANGE	COUNTY	CONFIDENT
167	MOLLY 1-36-B4	FEE	43-013-30937	WESTERN ALLIANCE PETROLEUM	09/14/84	36	02S	04W	DUCHESNE	Change to TA Status
544	UTE TRIBAL 2-18D	IND	43-013-31212	EVERTSON OIL COMPANY INC	07/11/88	18	04S	04W	DUCHESNE	Change to TA Status
1336	UTE TRIBAL 7-29	IND	43-013-31339	EVERTSON OIL COMPANY INC	12/11/91	29	05S	03W	DUCHESNE	Change to TA Status
1432	BOREN 4-9A2	FEE	43-013-31351	PENNZOIL EXPLR & PROD CO	02/11/92	09	01S	02W	DUCHESNE	Y Change to TA Status
1015	ALKALI POINT 1	FED	43-037-31603	GIANT EXPLR & PROD CO	05/29/91	12	39S	24E	SAN JUAN	Y Change to TA Status
1970	PERIDOT FEDERAL 22-31H	FED	43-037-31736	MERIDIAN OIL INC	02/01/92	31	31S	23E	SAN JUAN	OK - Dr. 1.
64	DEVIL'S PLAYGROUND FED 32-31	FED	43-047-31010	EPS RESOURCES CORP	11/02/81	31	09S	24E	UINTAH	Change to TA Status
59	OIL CANYON 26-1A	FED	43-047-31180	DEL-RIO DRILLING PROGRAMS	06/30/82	26	14S	20E	UINTAH	change to SI Status
248	NATURAL BUTTES UNIT 82J?	STA	43-047-31236	COASTAL OIL & GAS CORP	08/19/83	26	09S	21E	UINTAH	PA Change to PA Status
100	W. BRENNAN FEDERAL 16-12	FED	43-047-31549	LOMAX EXPLORATION COMPANY	11/13/84	12	07S	20E	UINTAH	Change to TA Status
1514	FEDERAL 7-24B	FED	43-047-32227	PG & E RESOURCES COMPANY	06/25/93	24	09S	19E	UINTAH	Y Change to TA Status
1590	GYPSUM HILLS 10	FED	43-047-32306	CHEVRON USA PRODUCTION CO	05/16/93	21	08S	21E	UINTAH	Change to SI Status

Bureau of Land Management
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

3100
U-01470A
(UT-923)

NOV 29 1994

CERTIFIED MAIL---Return Receipt Requested

DECISION

DALEN Resources Oil & Gas Co.	:	
6688 N. Central Expwy., #1000	:	Oil and Gas
Dallas, Texas 75206	:	U-01470A et al

Corporate Name Change Recognized

Acceptable evidence has been received in this office concerning the change of name of PG&E Resources Company to DALEN Resources Oil & Gas Co. on Federal oil and gas leases.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the name change by a copy of this decision. If additional documentation for changes of operator are required by our field offices, you will be contacted by them.

A rider to the Nationwide Bond No. U1870111 (BLM Bond No. WY2554) has been filed in the Wyoming State Office, in order to change the name of the principal on the bond. It has been examined and found to be satisfactory by that office.

/s/ ROBERT LOPEZ

Chief, Minerals
Adjudication Section

Enclosure
Exhibit

bc: Moab District Office w/encl.
Vernal District Office w/encl.
MMS-Data Management Division, Denv
UT-922 (Teresa Thompson) w/encl.

Post-It™ brand fax transmittal memo 7671		# of pages ▶ 2
To	LISHA CARDONA	From
Co.	STATE OF UTAH	Co.
Dept.	OIL & GAS	Phone #
Fax #	359-3940	Fax #

CMerritt:dab 11/25/94 (U01470A)

List of Leases Affected

U-01470A	U-6632	UTU-65615	UTU-68631
U-01790	U-6634	UTU-66004	UTU-69024
U-02896A	U-7206	UTU-66027	UTU-69166
U-03505	U-10291	UTU-66033	UTU-69482
U-03576	U-10760	UTU-66184	UTU-69744
U-013429A	U-11385	UTU-66185	UTU-72104
U-013765	U-12942	UTU-66187	UTU-73087
U-013766	U-13905	UTU-66193	UTU-73089
U-013767	U-14236	UTU-66484	UTU-73433
U-013769	U-15392	UTU-66743	UTU-73512
U-013769A	U-16172	UTU-67168	U-47453 ROW
U-013769B	U-16535	UTU-67841	U-49204 ROW
U-013769C	U-16539	UTU-67857	U-49205 ROW
U-013792	U-16544	UTU-67996	U-49223 ROW
U-013793	U-17036	UTU-67997	U-49236 ROW
U-013793A	U-17424	UTU-68108	U-49243 ROW
U-013794	U-19267	UTU-68109	U-50487 ROW
U-013818A	U-30096	UTU-68316	U-50488 ROW
U-013820	U-39221	UTU-68328	U-50497 ROW
U-013821A	U-39713	UTU-68330	U-50806 ROW
U-017713	U-39714	UTU-68338	U-50809 ROW
U-035316	U-40026	UTU-68346	U-50825 ROW
U-037164	U-46825	UTU-68347	U-50833 ROW
U-0141644	U-47171	UTU-68348	U-53910 ROW
U-0143519	U-49092	UTU-68388	U-54803 ROW
U-0143520A	U-50750	UTU-68402	U-61946 ROW
U-0143521A	U-52765	UTU-68544	U-63969 ROW
U-0147541	U-55626	UTU-68548	UTU-69111 ROW
U-0147541A	U-58546	UTU-68619	
U-2838	U-61052	UTU-68624	
U-6610	U-61189	UTU-68625	
U-6612	U-62657	UTU-68626	
U-6615	UTU-65218	UTU-68627	

U-034217A *Confirmed Btm/ST
11-29-94. Jc

UTAH WELLS

8/24/94

WELL NAME	LOCATION	SEC-TWNSHIP-RANGE	COUNTY	LEASE NUMBER	API NO.
✓NGC #31-15 (PA'd 10/88)	NW/4 NE/4	15-14S-24E	Unitah	U-10133	43-047-30974
✓Federal #42-23 (PA'd 9/90)	SE/4 NE/4	23-14S-24E	Unitah	U-10133	43-047-30976
✓Federal #23-23 (PA'd 8/90)	NE/4 SW/4	23-9S-17E	Unitah	U-17785	43-047-31169
✓Federal #32-29	SW/4 NE/4	29-9S-18E	Unitah	U-19267	43-047-31175
✓Federal #33-18-J	NW/4 SE/4	18-9S-19E	Unitah	U-16544	43-047-31200
✓State #2-32-B	NW/4 NE/4	32-9S-19E	Unitah	ML-45172	43-047-32221
✓Federal #11-24-B	NE/4 SW/4	24-9S-19E	Unitah	UTU-68625	43-047-32223
✓State #5-36-B	SW/4 NW/4	36-9S-19E	Unitah	ML-45173	43-047-32224
✓State #9-36-A	NE/4 SE/4	36-9S-18E	Unitah	ML-45171	43-047-32225
✓Federal #7-24-B	SW/4 NE/4	24-9S-19E	Unitah	U-68625	43-047-32227
✓Federal #13-26-B	SW/4 SW/4	26-9S-19E	Unitah	UTU-68626	43-047-32237
✓Federal #11-31-C (PA'd 2/94)	NE/4 SW/4	31-9S-20E	Unitah	UTU-68631	43-047-32244
✓Federal #1-26-B	NE/4 NE/4	26-9S-19E	Unitah	UTU-68625	43-047-32248
✓State #9-36-B	NE/4 SE/4	36-9S-19E	Unitah	ML-45173	43-047-32249
✓Federal #13-24-B	SW/4 SW/4	24-9S-19E	Unitah	UTU-68625	43-047-32418
✓Federal #15-24-B	SW/4 SE/4	24-9S-19E	Unitah	UTU-68625	43-047-32420
✓State #15-14-B	SW/4 NW/4	24-9S-19E	Unitah	ML-45243	43-047-32450
✓Federal #5-24-B	SW/4 NW/4	24-9S-19E	Unitah	UTU-68625	43-047-32447
✓Blue Diamond #13-13-B	SW/4 SW/4	13-9S-19E	Unitah	Fee	43-047-32457
✓Federal #7-19-B	SW/4 NE/4	19-9S-19E	Unitah	UTU-65218	43-047-32479
✓State #31-32	NW/4 NE/4	32-8S-18E	Unitah	ML-22058	43-047-32500
✓Federal #2-19	NW/4 NE/4	19-9S-19E	Unitah	U-65218	43-047-32497
✓Federal #41-29	NE/4 NE/4	29-9S-18E	Unitah	U-19267	43-047-32495
✓Federal #44-18	SE/4 SE/4	18-9S-19E	Unitah	U-16544	43-047-32498

DALEN Resources
Oil & Gas Co.



October 5, 1994

OCT 11 1994

Lisha Romero
State Oil & Gas Office
3 Triad Center
Salt Lake City, Utah 84180-1203

Re: Company Name Change

Dear Ms. Romero:

PG&E Resources Company changed its name to DALEN Resources Oil & Gas Co. We are requesting a blanket change for all of PG&E Resources Company's properties to:

DALEN Resources Oil & Gas Co.
6688 N. Central Expressway, Suite 1000
Dallas, Texas 75206-3922

This change is effective October 1, 1994 for all records and reports filed in all districts throughout the state of Utah. I have included a listing of our Utah properties.

Also enclosed is a copy of the Certificate of the Secretary of State of Delaware regarding the name change to DALEN Resources Oil & Gas Co.

If you have any questions regarding this matter, please contact me at (214) 706-3678.

Sincerely,

A handwritten signature in cursive script that reads "Jim Johnson".

Jim Johnson
Regulatory Analyst

JJ/sw
Enclosures

cc: Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

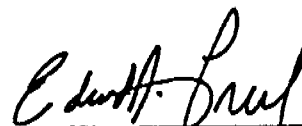
State of Delaware
Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"PG&E RESOURCES OFFSHORE COMPANY", A DELAWARE CORPORATION,
WITH AND INTO "PG&E RESOURCES COMPANY" UNDER THE NAME OF
"DALEN RESOURCES OIL & GAS CO.", A CORPORATION ORGANIZED AND
EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED
AND FILED IN THIS OFFICE THE NINETEENTH DAY OF SEPTEMBER, A.D.
1994, AT 1:30 O'CLOCK P.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO
THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.





Edward J. Freel, Secretary of State

2261176 8100M

944175519

AUTHENTICATION:

7242629

DATE:

09-19-94

**CERTIFICATE OF OWNERSHIP
AND MERGER**

MERGING

**PG&E Resources Offshore Company
a Delaware corporation**

INTO

**PG&E Resources Company
a Delaware corporation**

**(Pursuant to Section 253 of the General Corporation
Law of the State of Delaware)**

PG&E Resources Company, a corporation duly organized and existing under and by virtue of the General Corporation Law of the State of Delaware ("Resources"), does hereby certify:

FIRST: That Resources and PG&E Resources Offshore Company ("Offshore") are corporations duly organized and existing under and by virtue of the General Corporation Law of the State of Delaware.

SECOND: That Resources owns all of the outstanding shares of the capital stock of Offshore.

THIRD: That the board of directors of Resources adopted the following resolutions by unanimous written consent on September 16, 1994, and that such resolutions have not been rescinded and are in full force and effect on the date hereof:

"RESOLVED, that PG&E Resources Offshore Company, a Delaware corporation ("Offshore"), which is a wholly-owned subsidiary of Resources, merge with and into Resources pursuant to Section 253 of the General Corporation Law of the State of Delaware (the "Merger"), effective as of 9:00 A.M., Wilmington, Delaware time, on October 1, 1994, and that Resources assume all of the obligations of Offshore at such time;

RESOLVED, that upon the effective time of the Merger the name of the surviving corporation shall be changed to "DALEN Resources Oil & Gas Co."; and

RESOLVED, that the President or any Vice President of Resources are hereby authorized and empowered to file with the Secretary of State of the State of Delaware a certificate of ownership and merger to effect the Merger and the name change of the surviving corporation, and the appropriate officers of Resources are hereby authorized to incur the necessary expenses therefor and to take, or cause to be taken, all such further action and to execute and deliver

or cause to be executed and delivered, in the name of and on behalf of Resources, all such further instruments and documents as any such officer may deem to be necessary or advisable in order to effect the purpose and intent of the foregoing resolutions and to be in the best interests of Resources (as conclusively evidenced by the taking of such action or the execution and delivery of such instruments and documents, as the case may be, by or under the direction of any such officer)."

FOURTH: This Certificate shall not be effective upon its filing date, but shall become effective at 9:00 A.M., Wilmington, Delaware time, on October 1, 1994 (the "Effective Date").

FIFTH: Upon the Effective Date, the name of the surviving corporation shall be changed to "DALEN Resources Oil & Gas Co."

IT WITNESS WHEREOF, Resources has caused this Certificate to be signed by its duly authorized officer this 19th day of September 1994.

PG&E RESOURCES COMPANY

By Joseph T. Williams
Name: Joseph T. Williams
Title: President

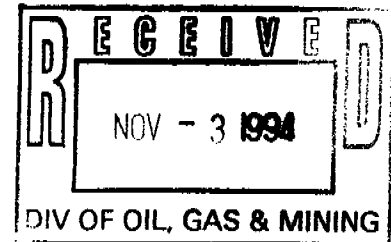
DALEN Resources
Oil & Gas Co.



October 31, 1994

Kent E. Johnson
Vice President
Exploration/Development

STATE OF UTAH NATURAL RESOURCES
OIL & GAS MINING
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Attn: Gil Hunt



Re: Name Change
PG&E Resources Company

Gentlemen:

Effective October 1, 1994, PG&E Resources Company (PG&ER) changed its name to **DALEN** Resources Oil & Gas Co. As a result of this action, all activities previously conducted in the name of PG&E Resources Company will subsequently be conducted by **DALEN** Resources Oil & Gas Co.. No changes in ownership, personnel, office address, telephone numbers, or business practices were caused by this name change.

Please revise your records by replacing PG&E Resources Company or PG&E Resources Offshore Company with **DALEN** Resources Oil & Gas Co.

Very truly yours,

A handwritten signature in cursive script, reading "John R. Wingert".

John R. Wingert
Exploration Manager
Northern Division

JRW:lkd

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

Routing:

1	LEC/GIL
2	LWP 7-PL
3	DP-28-SJ
4	VEC-9-FILE
5	RJP
6	LWP

XXX Change of Operator (~~well sold~~)

☐ Designation of Operator

☐ Designation of Agent

XXX Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 10-1-94)

TO (new operator)	DALEN RESOURCES OIL & GAS CO.	FROM (former operator)	PG&E RESOURCES COMPANY
(address)	6688 N CENTRAL EXP STE 1000	(address)	6688 N CENTRAL EXP STE 1000
	DALLAS TX 75206-3922		DALLAS TX 75206-3922
	phone (<u>214</u>) <u>750-3800</u>		phone (<u>214</u>) <u>750-3800</u>
	account no. <u>N3300 (11-29-94)</u>		account no. <u>N 0595</u>

Well(s) (attach additional page if needed):

***WELLS DRAW (GRRV) UNIT**

***WEST WILLOW CREEK UNIT**

Name: **SEE ATTACHED**	API: <u>047-32227</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Lee 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 10-3-94)
- Lee 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 10-3-94)
- Lee 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes) no ____ If yes, show company file number: #FN001519. "Dalen Resources Corp." eff. 6-15-94.
- Lee 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (11-29-94)
- Sup 6. Cardex file has been updated for each well listed above. 12-7-94
- Sup 7. Well file labels have been updated for each well listed above. 12-8-94
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (11-29-94)
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Yes* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) *Surety U1870145/80,000 "Rider to Deter" rec'd 10-3-94. *Trust Land/Ed "Rider" Appr. 10-5-94 # U2164274/80,000.*

- Yes* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new *Upon compl. of routing.* and former operators' bond files.
- Yes* 3. The former operator has requested a release of liability from their bond (yes/no) no.
N/A Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

DD 2. Copies of documents have been sent to State Lands for changes involving State leases.
2/8/94 to Ed Brown

FILMING

- ✓* 1. All attachments to this form have been microfilmed. Date: December 15 19 94.

FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

94/11/08 B-hm/s.f. Not appr. yet!

94/11/25 " Appr. 'd.

Form 5, 60-5
(June 1990)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Dry Hole

2. Name of Operator

PG&E Resources Company

3. Address and Telephone No.

6688 N. Central Expwy., Suite 1000, Dallas, TX 75206

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FNL & 1977' FEL

SW/4 NE/4 Sec. 24-T9S-R19E

5. Lease Designation and Serial No

U-68625

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Federal 7-24B

9. API Well No.

43-047-32227

10. Field and Pool, or Exploratory Area

Natural Buttes 630

11. County or Parish, State

Uintah County, Utah

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☒
- Subsequent Report
-
- ☐
- Final Abandonment

TYPE OF ACTION

- ☒
- Abandonment
-
- ☐
- Recompletion
-
- ☐
- Plugging Back
-
- ☐
- Casing Repair
-
- ☐
- Altering Casing
-
- ☐
- Other _____
-
- ☐
- Change of Plans
-
- ☐
- New Construction
-
- ☐
- Non-Routine Fracturing
-
- ☐
- Water Shut-Off
-
- ☐
- Conversion to Injection
-
- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log from.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spot 125sx (15.6 ppg, 1.18 yield) premium cement from 4700-4500'. Spot 150sx (15.6 ppg, 1.18 yield) cement plug from 2750-2450'. Spot 80sx (15.6 ppg, 1.18 yield) cement plug from 516-316'. Spot 80sx cement plug from 497-297'. Set 30sx cement plug from 77-15'. Well P&A 07/06/93. Plugging operations observed by Dave Brown, BLM representative.

RECEIVED
AUG 06 1993

14. I hereby certify that the foregoing is true and correct

Signed

Title Regulatory Analyst

Date 08/03/1993

(This space for Federal or State official use)

Approved by

Title

Date OCT 12 1993

Conditions of approval, if any:

WELL HISTORY

7-24B Federal
Riverbend Area
Uintah County, Utah
(PG&ER Operated)

- 06-28-93 Drilled 400' with air rig, ran 9 joints of 9-5/8", 36#, J-55 casing & cemented with 230 sacks Premium + 2% CaCl₂ (1.18 yeild, 15.6 ppg). Did not bump plug, had cement to surface. Move rig over & drill rate & mouse hole.
- 06-29-93 Drilling 793', day 1, 377/4.5 hrs, MW 8.3, Visc 26. MRU, test BOP's to 3000 psi, test casing to 1500 psi. PU BHA, TIH to 365', drill float, cement shoe to 416' & drill formation to 793'.
- 06-30-93 Drilling 2245', day 2, 1452/22 hrs, MW 8.4, Visc 26. Drill & survey 1.75° at 1480' & 1° at 1914'.
- 07-01-93 Drilling 3650', day 3, 1405/21 hrs, MW 8.4, Visc 26. Drill & survey 1.5° at 2447' & .75° at 3385'.
- 07-02-93 Drilling 4840', day 4, 1190/23 hrs, MW 9.0, Visc 26. Drill & surv'ing. Survey 1° at 3893', 1.25° at 4323'.
- 07-03-93 Circ to log, day 5, 570/16.2 hrs, MW 9.2, Visc 30. Drill to 4984', lost 200 psi pump pressure, POOH 32 stands looking for wash out. Drill to 5297', lost 200 psi pump pressure, POOH 23 stands looking for wash out. Drill to 5410' & circ for logs. 7D
- 07-04-93 TIH with DST tools, day 6, MW 9.2, Visc 30. Strap OOH for logs, RU HLS, run DLL/DSN/SDL/GR/Cal, TIH, circ for DST, POOH, PU packers for SDT & strap in hole.
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- 07-06-93 Release rig, day 8. Set 125 sacks (15.6 ppg, 1.18 yield) from 4700-4500', WOC 4 hrs, TIH & tag cement top at 4486'. LD 62 joints DP, set 150 sacks (15.6 ppg, 1.18 yield) from 2750-2450', WOC 4 hrs, TIH & tag cement at 2446', LD DP. Set 80 sacks (15.6 ppg, 1.18 yield) from 516-316', fluid level dropped, TIH & tag cement at 497'. Set 80 sacks from 497-297', LD DP & set final plug from 77-15'. Clean pits & RR at 6:00am 7-6-93. FINAL REPORT - WELL P&A'd.

FACSIMILE COVER SHEET

TO: Debra @ _____ FAX # _____
 TO: _____ @ _____ FAX # _____
 TO: _____ @ _____ FAX # _____

FROM: Cindy Keister DATE: 4/13/95

Total Number of Pages: 2 (not including the cover page)

MESSAGE

The information contained in or attached to this facsimile transmission is intended only for the confidential use of the individual(s) named above. If you are not the named recipient or an agent responsible for delivering it to the named recipient, you are hereby notified that you have received this document in error and that review, dissemination or copying of this communication is prohibited. If you have received this transmission in error, please notify us immediately by telephone and return the original documents to us by mail.

DALEN Resources Oil & Gas Co. Fax Numbers

- | | |
|---|---------------|
| <input type="checkbox"/> Reservoir Engineering (4th Floor) | (214)750-3954 |
| <input type="checkbox"/> Information Services (2nd Floor) | (214)750-3169 |
| <input type="checkbox"/> Drilling (5th Floor) | (214)750-3845 |
| <input type="checkbox"/> Executive/Legal (10th Floor) | (214)750-3803 |
| <input type="checkbox"/> Exploration - Offshore (5th Floor) | (214)750-3163 |
| <input type="checkbox"/> Exploration - Onshore (6th Floor) | (214)750-3993 |
| <input type="checkbox"/> Financial Accounting/Tax (10th Floor) | (214)750-3188 |
| <input type="checkbox"/> General Accounting (3rd Floor) | (214)750-3998 |
| <input type="checkbox"/> Human Resources (10th Floor) | (214)750-3165 |
| <input type="checkbox"/> Land/Land Administration (4th Floor) | (214)750-3977 |
| <input type="checkbox"/> MAIN/Mailroom (2nd Floor) | (214)750-3883 |
| <input type="checkbox"/> Marketing (10th Floor) | (214)750-3994 |
| <input checked="" type="checkbox"/> Operations/Drilling/Reg. Compliance (5th Floor) | (214)750-3189 |
| <input type="checkbox"/> Operations/Production Engr./Materials (6th Floor) | (214)750-3164 |
| <input type="checkbox"/> Production/Revenue Accounting (3rd Floor) | (214)750-3162 |
| <input type="checkbox"/> Treasury (10th Floor) | (214)750-3160 |

This transmittal was sent from the Fax # checked above.

IF YOU DO NOT RECEIVE ALL OF THIS TRANSMITTAL, PLEASE NOTIFY

@ (214) 706-3146



DALEN Resources Oil & Gas Co., 6688 North Central Expressway, Suite 1000, Dallas, Texas 75206-3922
 Main Number (214)750-3800

FACSIMILE COVER SHEET

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Form 2-60-5
(June 1990)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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Use "APPLICATION FOR PERMIT" for such proposals

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☐ Oil Well ☐ Gas Well ☒ Other Dry Hole

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Federal 7-24B

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Natural Buttes 630

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- ☐ Notice of Intent
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- ☐ New Construction
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(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log from.)

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RECEIVED
AUG 06 1993

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Signed

Title Regulatory AnalystDate 08/03/1993

(This space for Federal or State official use)

Approved by

Title

Date OCT 12 1993

Conditions of approval, if any:

NOTED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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Uintah County, Utah
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CNG Producing
Company

A CNG COMPANY

November 4, 1999

Mr. Wayne Bankart
Dept. of the Interior
Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, UT 84078

RE: Federal 7-24B
Change of Operator and
Notice of Completed Reclamation

Dear Wayne:

Enclosed please find an original and two copies of our sundry notice requesting that the Federal #7-24B well be placed in CNG Producing Company's name as operator. Since this well was already plugged and abandoned at the time we acquired West Willow Creek, changing the operator on this well was overlooked. By filing this sundry, we would also like to notify the BLM that the reclamation work for this well has been completed and the location is ready for inspection.

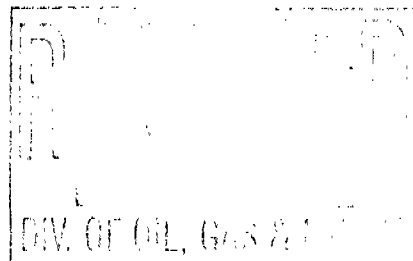
If you have any questions or need any further information, please feel free to contact me at (504) 593-7260 or our District Manager, Mitch Hall, at (435) 722-4521. Thank you for your continued help and cooperation.

Sincerely,

Susan H. Sachitana

Susan H. Sachitana
Regulatory Reports Administrator

cc: Utah Board of Oil, Gas & Mining
Nelda Decker
Mitch Hall
Well History Files



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
EXPIRES: July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instruction on reverse side

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. U-68625
2. Name of Operator CNG PRODUCING COMPANY		6. If Indian, Allottee or Tribe Name
3a. Address 1450 POYDRAS ST, NEW ORLEANS, LA 70112-6000	3b. Phone No. (include area code) (504) 593-7000	7. If Unit or CA/ Agreement, Name and/or No. WEST WILLOW CREEK
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1,980' FNL & 1,977' FEL (SW NE) of Sec. 24-T9S-R193		8. Well Name and No. FEDERAL #7-24B
		9. API Well No. 43-047-32227
		10. Field and Pool, or Exploratory Area NATURAL BUTTES 630
		11. County or Parish, State UINTAH, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

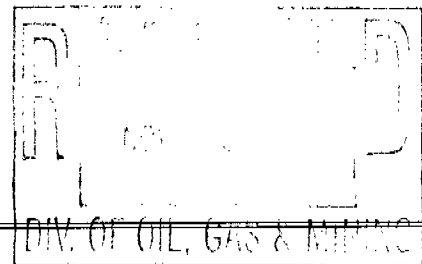
TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input checked="" type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandonment	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof.

If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation have been completed, and the operator has determined that the site is ready for final inspection.)

CNG Producing Company has purchased the working interest in the above referenced well from Enserch Exploration, Inc. effective 9/7/96. CNG Producing Company request at this time to be named operator of this well effective 9/7/96.

CNG Producing Company has also completed reclamation work on the above referenced well and the location is ready for inspection.



14. I hereby certify that the forgoing is true and correct Name (Printed/Typed) SUSAN H. SACHITANA	Title REGULATORY REPORTS ADMINISTRATOR
Signature <i>Susan H. Sachitana</i>	Date 991104

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
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Conditions of approval, if any, are attached. Approval of this notice does not warrant Office
certify that the applicant holds legal or equitable title to those rights in the subject lease
which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictiti
fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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